

**ATP-CN-040-01**

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Aastra CNX  
Conference Network Switch  
Release 1.3  
June 2006



# **Aastra CNX**

## **Conference Network Switch**

### System Administrator Guide



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# Contents

## Warranty, regulatory, safety, and copyright / licensing notices

Warranty - Aastra Telecom, Inc.....	ix
Warranty Limitation .....	ix
Regulatory information .....	x
U.S.A. requirements .....	x
Canadian requirements .....	xi
European requirements .....	xiii
Safety warnings .....	xiv
General warnings .....	xiv
Lithium battery caution .....	xiv
Compliances .....	xiv
Software licensing and copyright.....	xv

## Introduction

Congratulations!! .....	xvii
What is in the Aastra CNX shipping package? .....	xvii

## Chapter 1

### Aastra CNX Installation and Setup Procedures

Introduction .....	1-1
Prepare for hardware installation .....	1-2
What you need for a single installation .....	1-2
Check the shipping contents .....	1-3
Determine location of Aastra CNX (desktop or rackmount) .....	1-3
Install the Aastra CNX in a rack .....	1-4
Procedure .....	1-4
Illustration .....	1-4

Connect to the console .....	1-5
Console port parameters .....	1-5
Local connection .....	1-5
Remote connection .....	1-6
Illustration .....	1-6
Connect the network cables .....	1-7
Procedure .....	1-7
Illustration .....	1-7
Connect the power cable .....	1-8
Ground the chassis .....	1-8
Illustration .....	1-8
Startup and check the Aastra CNX .....	1-9
Apply power to the Aastra CNX .....	1-9
Check the LEDs .....	1-9
Illustration .....	1-10
Alarm Indicators .....	1-10
Configure the network settings .....	1-11
Requirements .....	1-11
Procedure .....	1-11
Using the Aastra CNX GUI via the Web .....	1-19
Requirement .....	1-19
Procedure .....	1-19
Configuration details (System Administrators only) .....	1-20
Troubleshooting information .....	1-20

## Chapter 2

### About the Aastra CNX

Overview .....	2-1
Features and benefits .....	2-2
Languages .....	2-3
Aastra CNX hardware .....	2-4
Description .....	2-4
Chassis .....	2-4
Front panel .....	2-5
Rear panel .....	2-7

---

Aastra CNX software .....	2-8
Description .....	2-8
Protocols and RFCs .....	2-8
Conference capabilities .....	2-10
Users and user privileges .....	2-11
Reporting capabilities .....	2-14
Aastra CNX upgrades .....	2-15
Software requirements .....	2-16

## Chapter 3

### Configuring the Aastra CNX

Overview .....	3-1
Description .....	3-1
Initial configuration .....	3-1
Modifying the initial configuration .....	3-2
Logging in to the Aastra CNX .....	3-10
Description .....	3-10
Requirements .....	3-10
Procedure .....	3-11
Configuring the Aastra CNX .....	3-14
Description .....	3-14
Procedures .....	3-16
General configuration .....	3-16
Conference configuration .....	3-29
Voice over IP configuration .....	3-32

## Chapter 4

### Managing the Aastra CNX

Managing users on the Aastra CNX .....	4-1
Description .....	4-1
Procedures .....	4-2
Managing conferences on the Aastra CNX .....	4-7
Description .....	4-7
Permanent Conference List .....	4-8
Scheduled Conference List .....	4-16

---

**Chapter 5****Maintaining the Aastra CNX**

Overview .....	5-1
Description .....	5-1
Update CNX software .....	5-4
Description .....	5-4
Procedure .....	5-4
Announcement options .....	5-9
Description .....	5-9
Loading/removing language packs .....	5-9
Loading/removing customized greetings .....	5-16
Operational status .....	5-22
Description .....	5-22
Displaying operational status .....	5-23
Entering/editing License Key .....	5-25
Description .....	5-25
Procedure .....	5-26
Rebooting the Aastra CNX .....	5-28
Description .....	5-28
Procedure .....	5-28
Saving/Restoring Configuration .....	5-30
Description .....	5-30
Procedure .....	5-31
Setting date and time .....	5-37
Description .....	5-37
Procedure .....	5-37
Downloading logs .....	5-40
Description .....	5-40
What are CDR logs? .....	5-41
Downloading/deleting CDR logs .....	5-43
Procedures .....	5-43
Cleaning up the Aastra CNX .....	5-49
Description .....	5-49
Procedure .....	5-50

**Appendix A**

**Conference key options**

Participant and Moderator key options .....	A-1
Description .....	A-1

**Appendix B**

**Additional information about CDR logs**

Description .....	B-1
What do the CDR logs contain? .....	B-1
Where are the CDR logs stored? .....	B-9
Reference .....	B-9

**Index**



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# ***Warranty, regulatory, safety, and copyright / licensing notices***

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## **Warranty - Aastra Telecom, Inc.**

Aastra Telecom Inc. ("Aastra") warrants ("Warranty") to its customer that: (i) Aastra has good and marketable title to the Product at the time of delivery to its customer, free and clear of any and all security interests, liens, claims, charges or encumbrances; and (ii) the Product shall be free from defects in design, material and workmanship and shall perform in accordance with the Aastra specifications in all material respects when used for the intended purpose for a period of twelve (12) months from the date of purchase of the Product by such customer from Aastra ("Warranty Period"). This Warranty specifically excludes any representation, warranty, condition or other term relating to any software contained in the Product. At its sole option, Aastra shall either repair or replace defective Product returned during the Warranty Period. Any repaired or replacement Product shall subsequently be covered for the balance of the original Warranty Period or ninety (90) days, whichever is longer. Upon customer's specific request, Product that fails after the Warranty Period expires may be returned for repair at the then current rates, with the cost of such repairs and shipping to be borne by customer.

Customer shall obtain a "returned material authorization" ("RMA") number from Aastra and comply with shipping instructions for all defective Products being returned to Aastra. Defective Products shall be returned to Aastra at the customer's sole expense. Aastra shall repair or replace defective Products returned under Warranty at no charge to customer, and Aastra shall bear the expense of the return shipment of the repaired or replacement Product to customer.

Aastra does not warrant the Product to be compatible with the equipment of any particular telephone company, or their network. This Warranty does not extend to Products damaged by improper installation or operation, alteration, accident, neglect abuse, misuse, fire or natural causes such as storms or floods. Aastra reserves the right to use refurbished parts in the repair or replacement of defective Products. Unauthorized modification or repair will void the Warranty.

To exercise the Aastra CNX Warranty,:

1. First contact your reseller for instructions.
2. Alternatively, you can contact Aastra Telecom at 1-866-599-7399.

## **Warranty Limitation**

THE FOREGOING PRODUCT WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES AS TO THE CONDITION, OPERATION AND PERFORMANCE OF THE PRODUCT, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES AND/OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. AAastra'S SOLE AND EXCLUSIVE LIABILITY, AND CUSTOMER'S SOLE AND EXCLUSIVE REMEDY, FOR ANY AAastra BREACH OF WARRANTIES HEREUNDER SHALL BE AAastra'S OBLIGATION TO REPAIR OR REPLACE THE PRODUCT, AS SET FORTH IN THIS SECTION, AND AAastra SHALL NOT BE LIABLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND OR NATURE, OR OTHER LOSS, DAMAGE OR EXPENSE DIRECTLY OR INDIRECTLY ARISING FROM CUSTOMER'S USE OF OR INABILITY TO USE PRODUCT, EITHER SEPARATELY OR IN COMBINATION WITH OTHER EQUIPMENT.

# Regulatory information

## U.S.A. requirements

The AASTRA CNX has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy. If it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case users will be required to take whatever measures may be necessary to correct the interference at their own expense.

Do not attempt to repair or modify this equipment. All repairs must be performed by Aastra Telecom, or an authorized Aastra Telecom representative.

### FCC Part 68 general information

The AASTRA CNX complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:2L4DDNANAASTRA01. If requested, this number must be provided to the telephone company. This Aastra CNX uses the following USOC RJ-48 jacks:

Interface	Service Code	Facility Code
1.544 Mb/s superframe format (SF) without line power	6.0Y	04DU9-BN
1.544 Mb/s superframe format (SF) and B8ZS without line power	6.0Y	04DU9-DN
1.544 Mb/s ANSI extended superframe format (ESF) without line power	6.0Y	04DU9-1KN
1.544 Mb/s ANSI extended superframe format (ESF) and B8ZS without line power	6.0Y	04DU9-1SN

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

If the AASTRA CNX causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facility, equipment, operations or procedures that could affect the operation of the AASTRA CNX. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If you experience trouble with this equipment, please contact Aastra Telecom for repair and warranty information. If there is a problem with the network, the telephone company may request that you remove the equipment from the network until the problem is resolved.

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Aastra Telecom recommends that you install an AC surge protector in the AC outlet to which the equipment is connected. This helps to prevent damage to the equipment caused by local lightning strikes or other electrical surges.

**THE AASTRA CNX HAS NO USER SERVICEABLE PARTS.**

### **FCC and telephone company procedures and requirements**

In order to connect this equipment to the network, you must provide the local telephone company with the registration number of this equipment, and you must order the proper connections.

To order the proper service, provide the telephone company with the following information:

- Number of required jacks and their USOC numbers
- Sequence in which the trunks are to be connected
- Facility interface codes, by position

### **CSA certification - U.S. and Canada**

This equipment has been certified by CSA for use in the U.S. and Canada to the requirements of UL 1950. Third Edition - Safety of Information Technology Equipment. Including Electrical Business equipment and Canadian Standards Association CAN/CSA C22.2 No. 950-95 Third Edition.

## **Canadian requirements**

### **Canadian Department of Communications Radio Interference Regulations**

This digital apparatus (Aastra CNX) does not exceed the Class A limits for radio-noise emissions from digital apparatus, as documented in the Radio Interference Regulations of the Canadian Department of Communications.

### **Règlement sur le brouillage radioélectrique du ministère des Communications**

Cet appareil numérique (Aastra CNX) respecte les limites de bruits radioélectriques visant les appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique du ministère des Communications du Canada.

### **Canada CS-03 rules and regulations**

**NOTICE:** This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.”

**NOTE:** The Canadian Department of Communications label identifies certified equipment. The certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. The Department does not guarantee the equipment will operate to the user’s satisfaction.

Before installing this equipment, ensure that it is permissible to connect to the facilities of the local telecommunications company. You must install this equipment using an acceptable connection method.

Repairs to certified equipment should be made by a supplier-designated representative. If you make repairs or alterations to this equipment, or if the equipment malfunctions, the telecommunications company may request that you disconnect the equipment.

You should ensure, for your own protection, that the electrical ground connections for the power utility, telephone lines, and internal water-pipe system, if present, are connected. This precaution may be particularly important in rural areas.

**CAUTION:** You should not attempt to make such connections. You should contact the appropriate inspection authority or electrician.

### Canada CS-03 Règles et règlements

« AVIS : Le présent matériel est conforme aux spécifications techniques d'Industrie Canada applicables au matériel terminal. Cette conformité est confirmée par le numéro d'enregistrement. Le sigle IC, placé devant le numéro d'enregistrement, signifie que l'enregistrement s'est effectué conformément à une déclaration de conformité et indique que les spécifications techniques d'Industrie Canada ont été respectées. Il n'implique pas qu'Industrie Canada a approuvé le matériel. »

**NOTE:** L'étiquette du ministère des Communications du Canada indique que l'appareillage est certifié, c'est-à-dire qu'il respecte certaines exigences de sécurité et de fonctionnement visant les réseaux de télécommunications. Le ministère ne garantit pas que l'appareillage fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer l'appareillage, s'assurer qu'il peut être branché aux installations du service de télécommunications local. L'appareillage doit aussi être raccordé selon des méthodes acceptées.

Les réparations de l'appareillage certifié devraient être confiées à un service désigné par le fournisseur. En cas de réparation ou de modification effectuées par l'utilisateur ou de mauvais fonctionnement de l'appareillage, le service de télécommunications peut demander le débranchement de l'appareillage.

Pour leur propre sécurité, les utilisateurs devraient s'assurer que les mises à la terre des lignes de distribution d'électricité, des lignes téléphoniques et de la tuyauterie métallique interne sont raccordées ensemble. Cette mesure de sécurité est particulièrement importante en milieu rural.

**ATTENTION:** Les utilisateurs ne doivent pas procéder à ces raccordements, mais doivent plutôt faire appel aux pouvoirs de réglementation en cause ou à un électricien, selon le cas.

---

## European requirements



### EMI/EN 55 022 statement

This certifies that the Aastra CNX Asterisk Network Switch is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC. Conformity is declared by the application of EN 55 022:1998 and EN 55 024:1998.

**WARNING:** This is a Class A product. In a residential area, this product may cause radio interference, in which case the user may be required to take the appropriate measures.

### EC declaration of conformity

This product conforms to the provisions of Council Directive's EMC Directive (89/336/EEC), Low Voltage Directive (73/23/EEC), and R+TTE Directive (1999/5/EC).

# Safety warnings

## General warnings

The following safety warnings apply:

- Mechanical hazards and electrical shock hazards are possible if you remove one or more of the modules. There are no operator-serviceable modules. Only qualified personnel should service this equipment.
- This equipment must be connected to a protective ground according to the instructions in this manual. Improper grounding may result in electrical shock.
- This equipment does not provide safety isolation between any port that is connected to a digital network termination point or any port to which terminal equipment is connected.
- The wall circuit breaker provides the main protection for this equipment.
- Ensure that rack installation does not result in airflow blockage to power supply vents or chassis vents.
- Before installing the Aastra CNX rackmount version, ensure that the rack is sturdy and well-secured.

## Lithium battery caution

**CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

**ATTENTION:** Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

## Compliances

The Aastra CNX is in compliance with regulations as follows:

- Environmental
  - 32-104° F (0-40° C)
  - Humidity 10-85% non-condensing
  - 400 BTUs/hour
  - 28 dBA maximum acoustic noise
- Safety Certifications
  - cUL 950, NTRL/UL 1950, TUV EN 60 950
- Telecom Approvals
  - FCC Part 68, Industry Canada, CTR4
- EMI/RF
  - FCC Part 15 Class A, EN55022 Class A (CISPR), EN55024

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# Software licensing and copyright

The Aastra CNX product consists of an Aastra designed hardware platform distributed with embedded Linux operating system and application software. This embedded software consists of multiple Aastra and third party programs; each individual program may be subject to one or more Copyrights or Software Licenses; the overall aggregation and distribution of these separate programs is protected as a collective work, Copyright © Aastra Telecom Inc. 2005.

Use and distribution of the CNX product are deemed to be acceptance of the Software Licensing terms contained within the *Aastra CNX Service Level Agreement*. Associated third party license agreements and applicable Open Source software licenses are incorporated by reference; the full text of all licenses can be found on the Aastra CNX documentation CDROM.

The following is a list of Aastra CNX software licenses. See the Aastra CNX documentation CD for more information about these licenses.

- Aastra SLA 1.5
- Copying GPLv2
- Netfilter-licensing
- Asterisk credits
- LINUX note
- Apachev11
- APLv11
- OpenORB
- EXOLAB
- MPLv1
- MPLv11
- OpenH323
- PWLIB
- PCMCIA CS
- BSD
- Syslogd Klogd
- Copying.LIB LGPL 2v1
- GLIBC
- Sendmail
- WU-ftpd
- Xinetd
- Ntpd
- OpenSSL
- BerkleyDB
- LFS bootscripts



## **Congratulations!!**

You have purchased a highly functional, cost-effective, easy-to-use Aastra CNX Conference Network Switch for use in your network.

The Aastra CNX is easy to install and operate, and provides a comprehensive set of security features you would expect from a state-of-the-art call conferencing product.

## **What is in the Aastra CNX shipping package?**

The Aastra CNX is carefully and securely packaged within the shipping container. Upon opening the shipping package, inventory the contents to be sure there are no missing or damaged parts. The following parts are included:

- One Aastra CNX unit
- One Power cable (for connection to AC power source)
- One DB-9 to DB-9 console cable
- One CompactFlash memory card that contains the software required to operate the unit (for use in CompactFlash memory slot 1)
- One set of rack mounting brackets with six Phillips head screws
- One Aastra CNX Technical Documentation CD ROM
- One CD ROM envelope with License Key label

For a list of additional parts that you need to install the Aastra CNX (which are not included in the shipping package), see [Chapter 1, “Aastra CNX Installation and Setup Procedures.”](#)



**Aastra CNX unit**



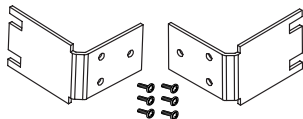
**Power cable**



**Console cable**



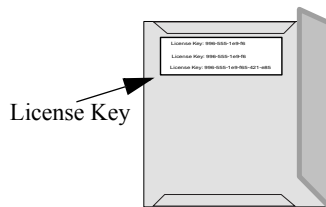
**CompactFlash card**



**Rack mounting brackets with  
Phillips head screws**



**Technical documentation CD ROM**



**CD ROM envelope with  
license key label**

---

# ***Chapter 1***

## ***Aastra CNX Installation and Setup Procedures***

---

### **Introduction**

This section provides quick installation and setup procedures for installing and starting up the Aastra CNX Conference Network Switch. This section also provides a list of additional parts that you need to install the Aastra CNX.

#### **References**

For more information about the Aastra CNX, see [Chapter 2, “About the Aastra CNX.”](#)

For information about configuring and using the Aastra CNX, see the following chapters in this guide:

[Chapter 3, “Configuring the Aastra CNX”](#)

[Chapter 4, “Managing the Aastra CNX”](#)

[Chapter 5, “Maintaining the Aastra CNX”](#)

# 1

## Prepare for hardware installation

### What you need for a single installation

- One Aastra CNX unit
- One AC power cable
- One CompactFlash memory card
- One set of rack mounting brackets with six (6) Phillips head screws
- Truss head screws (*not provided*)
- One to four RJ-48C T1/E1 cable(s) (*not provided*)



**Note:** T1/E1 Ports 1, 2, 3, and 4 are available for the 30, 60, and 120 port units.

---

- One 9-pin male DB-9 to female DB-9, RS-232 serial cable
- One or two RJ-45 10/100BaseT Ethernet cable(s) (*not provided*)
- (Optional) One 9-pin male DB-9 to female DB-25, RS-232 serial cable for modem connections (*not provided*)

### Tools required for rackmount installations

In addition to the parts listed above, the following tools are also required when installing an Aastra CNX rackmount unit:

- #2 Phillips screwdriver
- Torque wrench
- Nutdriver set

## Check the shipping contents

Upon opening the shipping package, inventory the contents to be sure there are no missing or damaged parts, as described in the [Introduction](#) section of this guide.

## Determine location of Aastra CNX (desktop or rackmount)

### Procedure

To determine the location of your Aastra CNX:

Step	Action
a	If you are installing the Aastra CNX as a desktop unit, place it on a flat surface in close proximity to your PC, skip Step 2, and perform Steps 3 through 8.
b	If you are installing the Aastra CNX as a rackmount unit, proceed to Step 2.

## 2

### Install the Aastra CNX in a rack



**Warning:** Before you install the Aastra CNX unit in a rack, ensure that the rack is sturdy and well secured.

---



**Caution:** The operating environment must provide unobstructed front-to-back airflow to the chassis that is mounted in a rack.

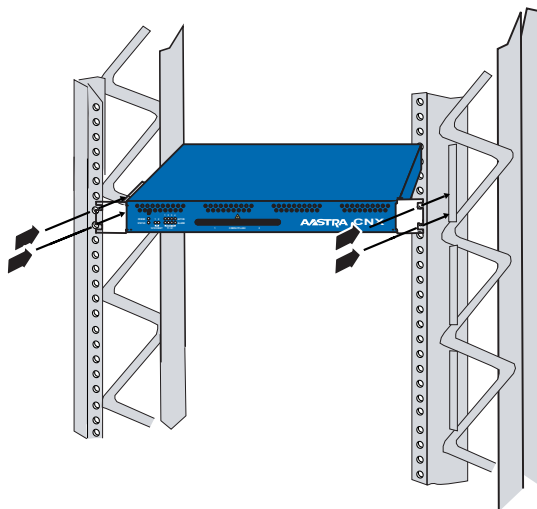
---

### Procedure

To install the Aastra CNX in a rack:

Step	Action
a	Mount the rackmount brackets to the Aastra CNX unit in a flush-mount position using the 6 Phillips head screws.
b	Align the bracket holes to the rack and insert truss-head screws ( <i>not provided</i> ).
c	Tighten the screws to 15 in-lb (.69 Nm).

### Illustration



# 3

## Connect to the console

### Console port parameters

You can access the Aastra CNX console locally or remotely. Ensure that you configure your terminal or PC (terminal emulator) console port parameters as provided in the following table.

Parameter	Value
Baud rate	9600
Flow control	None
Data bits	8
Stop bit	1
Parity	None

For the procedures in this section, refer to the illustration on [page 1-6](#).

### Local connection

#### Procedure

To connect a local PC or terminal:

Step	Action
a	Attach the 9-pin male DB-9 connector on the serial cable to the female console port on the rear panel of the Aastra CNX.
b	Attach the 9-pin female connector on the serial cable to the male console port on the back of your PC or terminal.

## Remote connection

### Procedures

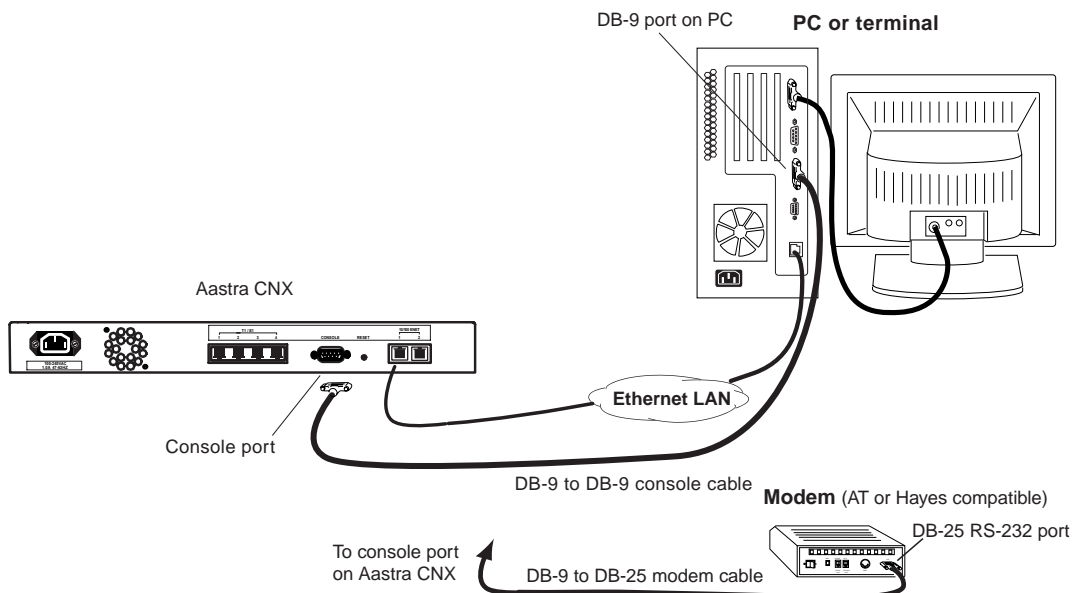
To connect a remote PC and an Aastra CNX to an Ethernet LAN:

Step	Action
a	Attach one end of an Ethernet cable to the Ethernet port on the PC, and the other end to a LAN port.
b	Attach one end of an Ethernet cable to an Ethernet port on the back panel of the Aastra CNX, and the other end to a LAN port.

To connect a modem:

Step	Action
a	Attach the 9-pin male connector on the serial cable to the female console port on the rear panel of the Aastra CNX.
b	Attach a 25-pin male connector on the modem cable to the modem's DB-25 RS-232 port.

## Illustration



# 4

## Connect the network cables

### Procedure

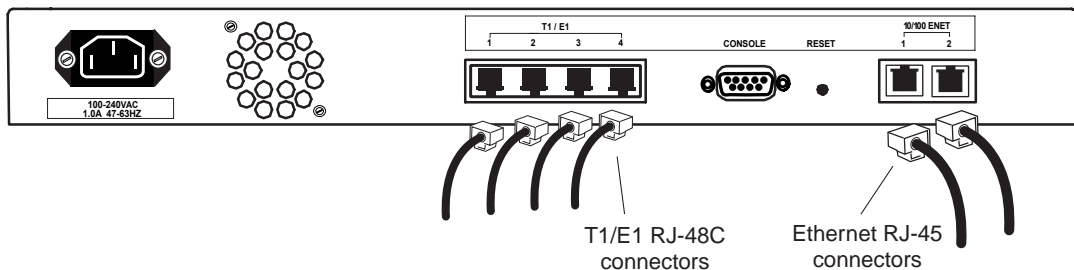


**Note:** Make sure you have the appropriate network cables that you need for your facility. Connect them to the applicable interfaces on the rear of the Aastra CNX as described in the following procedure.

To connect the network cables:

Step	Action
a	Connect RJ-48C T1/E1 cable(s) to the RJ-48C T1/E1 port(s) on the rear panel of the Aastra CNX as shown in the illustration below.
b	Connect the RJ-45 Ethernet UTP cable(s) to the RJ-45 10/100 ENET port(s) on the rear panel of the Aastra CNX as shown in the illustration below.

### Illustration



# 5

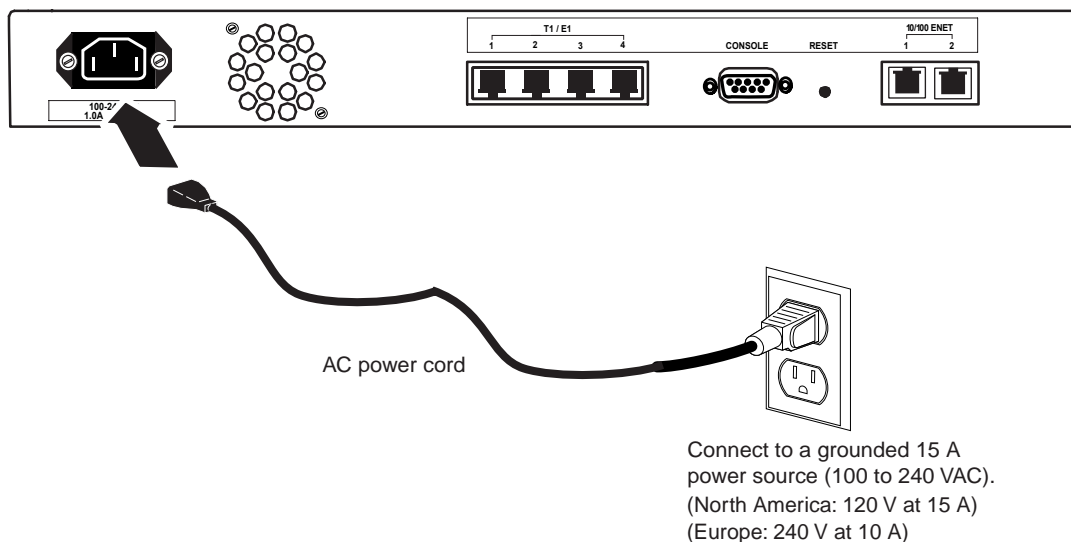
## Connect the power cable

### Ground the chassis

To ground the chassis:

Step	Action
a	Locate the 3-hole, female, power receptacle on the rear of the chassis.
b	Plug the male, 3-prong connector on the power cable into the power receptacle as shown in the illustration below.
c	Insert the plug at the other end of the power cable into a grounded power source (100 to 240 VAC).  <b>Note:</b> North America: 120 V at 15 A Europe: 240 V at 10 A

### Illustration



# 6

## Startup and check the Aastra CNX

### Apply power to the Aastra CNX

To start up the Aastra CNX, insert the CompactFlash card into slot 1 of the unit and apply power from the power source.

Powering up a new Aastra CNX:

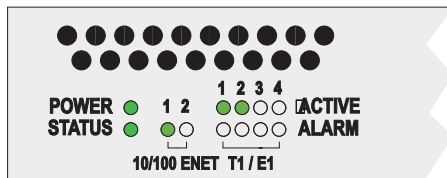
- Starts diagnostic test routines on the Aastra CNX.
- Checks for a flash memory card in CompactFlash slot 1 of the Aastra CNX chassis.
- Initializes the Aastra CNX and, if successful, resets all LEDs to their normal state.
- Starts a one-time software script that allows you to setup your network settings (See Step 7, [“Configure the network settings.”](#))

### Check the LEDs

To check the Aastra CNX LEDs:

Step	Action
a	Check the common LEDs on the front panel. The Power and Status LEDs should be <b>ON</b> (green) indicating the Aastra CNX is ready to take calls.
b	Check the ENET LEDs on the front panel. If your Aastra CNX has a physical Ethernet link to your network from the 10/100 ENET ports 1 or 2 on the back panel, and no alarms are present, the ENET LEDs 1 and/or 2 should be <b>ON</b> (green). <b>Note:</b> The ENET LEDs FLASH (green) when there is Rx/Tx activity.
c	The T1/E1 ports are disabled by default in the Aastra CNX software configuration. The top row of T1/E1 LEDs should be <b>OFF</b> . To enable these ports and check the LEDs, the System Administrator must enable the T1/E1 ports using the Aastra CNX GUI.

## Illustration



## Alarm Indicators

To check alarm indicators on the Aastra CNX:

Step	Action
a	Check that the Status LED is not ON Red. If the Status LED is ON Red, an alarm condition exists in the unit. Contact your System Administrator. <b>Note:</b> During bootup of the Aastra CNX, the Status LED is ON Red for 1 second. This is a normal condition at bootup.
b	When the T1/E1 port(s) are enabled, check that the T1/E1 LEDs on the bottom row are OFF. If the T1/E1 LED(s) on the bottom row are ON Amber, a yellow alarm is present on the T1/E1 link. If the T1/E1 LEDs are ON Red, a Red alarm is present on the T1/E1 link. Contact your System Administrator.

# 7

## Configure the network settings

### Requirements

The following is required before you configure the Aastra CNX for the first time:

- The Aastra CNX must physically be connected to your console using an RS-232/DB-9 cable.
- The Aastra CNX must physically be connected to your network interface via the Ethernet port(s).
- The Aastra CNX must be turned on.
- You must be running a terminal emulator on your PC. Terminal emulator must be set as follows:
  - Baud Rate        9600
  - Data              8 bit
  - Parity            None
  - Stop              1 bit
  - Flow Control    None

After powering up the Aastra CNX, a network script runs in a terminal emulator window allowing you to initially configure the unit for your network.

### Procedure

The following procedure describes how to configure the network settings.



**Note:** If at any time during the initial configuration process, you want to backout of the configuration, press <ESC> to cancel.

## Run network and time configuration

Use the following procedure to initially configure the network settings on the Aastra CNX hardware.

Step	Action
1	<p>After first-time power up of the CNX, the following displays in a terminal window:</p> <pre>      Welcome to the Aastra CNX - Conference Bridge Configuration Utility  - please press &lt;enter&gt; to continue -</pre>
2	<p>Press &lt;Enter&gt;.</p> <p>The following displays:</p> <p>Hostname:</p>
3	<p>Enter the hostname for the Aastra CNX and press &lt;Enter&gt;. For example:</p> <pre>Hostname: cnx1 ↵</pre> <p>The following displays:</p> <pre>Configuring ENET #1... IP Address:</pre>
4	<p>Enter the IP address for the Ethernet port for which you want to use as a management interface, and press &lt;Enter&gt;. For example:</p> <pre>IP Address: 192.168.2.6 ↵</pre> <p>The following displays:</p> <p>Netmask:</p>
5	<p>Enter the Netmask for the Ethernet port for which you want to use as a management interface, and press &lt;Enter&gt;. For example:</p> <pre>Netmask: 255.255.255.0 ↵</pre> <p>The following displays:</p> <p>Default Gateway:</p>

(continued)

Step	Action
6	<p>Enter “<b>y</b>” if the network information is correct, and press &lt;Enter&gt;.  Enter “<b>n</b>” if the network information is incorrect, and press &lt;Enter&gt;.</p> <p><b>Note:</b> If you entered “<b>n</b>” at the verification prompt, repeat steps 3 through 7 to correct the network information, and then enter “<b>y</b>” at step 8.</p> <p>The following message and prompt display (after entering “y” at the verification prompt):</p> <pre>Configuring Domain Name Service (DNS)...</pre> <p>Domain Name:</p>
7	<p>Enter the Default Gateway for the Ethernet port for which you want to use as a management interface, and press &lt;Enter&gt;. For example:</p> <pre>Default Gateway: 192.168.2.1 ↵</pre> <p>The following displays:</p> <p>Before the following information is configured, please verify the information below is correct before proceeding.</p> <pre> Hostname:                cnx1 IP Address:              192.168.2.6 Broadcast Address:      192.168.2.255 Netmask:                 255.255.255.0  Default Gateway:        192.168.2.1  Is this correct (y/n):</pre>
8	<p>Enter “<b>y</b>” if the network information is correct, and press &lt;Enter&gt;.  Enter “<b>n</b>” if the network information is incorrect, and press &lt;Enter&gt;.</p> <p><b>Note:</b> If you entered “<b>n</b>” at the verification prompt, repeat steps 3 through 7 to correct the network information, and then enter “<b>y</b>” at step 8.</p> <p>The following message and prompt display (after entering “y” at the verification prompt):</p> <pre>Configuring Domain Name Service (DNS)...</pre> <p>Domain Name:</p>

(continued)

Step	Action
9	<p>Enter the domain name for the Aastra CNX and press &lt;Enter&gt;. For example:</p> <p>Domain Name: <b>aastra.com</b> ↵</p> <p>The following prompts display:</p> <p>Nameserver #1: Nameserver #2:</p>
10	<p>Enter the IP address of the DNS servers for the Aastra CNX and press &lt;Enter&gt;. For example:</p> <p>Nameserver #1: <b>192.167.2.11</b> ↵ Nameserver #2: <b>192.168.2.12</b> ↵</p> <p>The following message and prompts display:</p> <p>Before the following information is configured, please verify the information below is correct before proceeding.</p> <p>Domain Name:           aastra.com</p> <p>Nameserver #1:       192.167.2.11 Nameserver #2:       192.168.2.12</p> <p>Is this correct (y/n):</p>

(continued)

Step	Action
11	<p>Enter <b>"y"</b> if the DNS information is correct, and press &lt;Enter&gt;.  Enter <b>"n"</b> if the DNS information is incorrect, and press &lt;Enter&gt;.</p> <p><b>Note:</b> If you entered <b>"n"</b> at the verification prompt, repeat steps 9 and 10 to correct the DNS information, and then enter <b>"y"</b> at step 11.</p> <p>The following message and prompts display (after entering <b>"y"</b> at the verification prompt):</p> <pre>Unpacking timezones, please wait one moment...  Timezone Configuration  Africa      Chile      GMT        Jamaica    Navajo     US America     Cuba       GMT+0      Japan      PRC        UTC Antarctica  EET        GMT-0      Kwajalein  PST8PDT    Universal Arctic      EST        GMT0       Libya      Pacific    W-SU Asia        EST5EDT    Greenwich  MET        Poland     WET Atlantic    Egypt     HST        MST        Portugal   Zulu Australia  Eire       Hongkong   MST7MDT    ROC Brazil      Etc        Iceland    Mexico     ROK CET         Europe     Indian     Mideast    Singapore CST6CDT     GB         Iran       NZ         Turkey Canada      GB-Eire    Israel     NZ-CHAT    UCT</pre> <p>Enter a choice, "back" to go up one level, or "cancel" to cancel:</p>
12	<p>Enter your local timezone and press &lt;Enter&gt;. For example:</p> <pre>Enter a choice, "back" to go up one level, or "cancel" to cancel: <b>EST</b> ↵</pre> <p><b>Note:</b> Some of the options in the Timezone Configuration list display an additional list of options. For example, if you select <b>"America"</b> from the Timezone Configuration list, another list of options displays for timezones in America.</p> <p>The following message and prompt displays:</p> <pre>Timezone: EST  Are you sure? (y/n)</pre>

(continued)

Step	Action
13	<p>Enter “y” if the timezone is correct, and press &lt;Enter&gt;. Enter “n” if the timezone is incorrect, and press &lt;Enter&gt;.</p> <p><b>Note:</b> If you entered “n” at the verification prompt, repeat step 12 to correct the timezone, and then enter “y” at step 13.</p> <p>The following message and prompts display (after entering “y” at the verification prompt):</p> <p>Please enter the date and time:</p> <p>Four-digit year [2005]: Month [03]: Day [09]:</p> <p>Hour [19]: Minutes [40]:</p>
14	<p>The defaults for the date and time are the current date and time on your PC. If these defaults are correct, press &lt;Enter&gt; at each prompt without making an entry. If a default is incorrect, enter the correct value and press &lt;Enter&gt; to continue. In the following example, <b>14</b> is entered for the hour since the default of <b>19</b> is incorrect.</p> <p>Four-digit year [2005]: Month [03]: Day [09]:</p> <p>Hour [19]: <b>14</b> Minutes [40]:</p> <p>The following displays:</p> <p>Before the following information is configured, please verify the information below is correct before proceeding.</p> <p>Date: 2005-03-09 14:40:00</p> <p>Is this the correct time (y/n) [n]:</p>

(continued)

Step	Action
15	<p>Enter “y” if the date and time are correct, and press &lt;Enter&gt;. Enter “n” if the date and time are incorrect, and press &lt;Enter&gt;.</p> <p><b>Note:</b> If you entered “n” at the verification prompt, repeat step 14 to correct the date and time, and then enter “y” at step 15.</p> <p>The following message displays (after entering “y” at the verification prompt):</p> <p>Configuring Network Time Protocol (NTP)...</p> <p>You can configure up to 4 NTP servers. To remove an existing server, set it's address to 0.0.0.0. If no valid servers are given then ntp will be disabled.</p> <p>Do you want to continue (y/n) [n]:</p>
16	<p>Enter “y” to continue, and press &lt;Enter&gt;.</p> <p>The following prompts display:</p> <p>NTP Server #1: [pool.ntp.org]: NTP Server #2: [pool.ntp.org]: NTP Server #3: [pool.ntp.org]: NTP Server #4: [pool.ntp.org]:</p>

(continued)

Step	Action
17	<p>Enter up to four NTP servers in your network, and press &lt;Enter&gt;. For example:</p> <pre>NTP Server #1: [pool.ntp.org]: 192.167.2.11 ↵ NTP Server #2: [pool.ntp.org]: 192.167.2.12 ↵ NTP Server #3: [pool.ntp.org]: 0.0.0.0 ↵ NTP Server #4: [pool.ntp.org]: 0.0.0.0 ↵</pre> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. You can enter up to four NTP servers. If you have fewer than four NTP servers, enter the IP address(es) for the NTP servers that you have, and then enter 0.0.0.0 for the remaining NTP entries.</li> <li>2. If you do not have your own NTP server, and the Aastra CNX has Internet connectivity, you may use the default server entry of pool.ntp.org.</li> <li>3. Aastra Telecom <b>strongly recommends</b> the use of NTP servers, either your own or the default servers. NTP servers avoid clock slippage and inconsistent conference start times on the Aastra CNX. However, you may completely disable the NTP server feature by setting the IP address of all four servers to 0.0.0.0.</li> </ol> <p>The following displays:</p> <pre>Before the following information is configured, please verify the information below is correct before proceeding.  NTP Server #1 : 192.167.2.11 NTP Server #2 : 192.167.2.12  Is this information correct (y/n) [n] :</pre>
18	<p>Enter “y” if the NTP information is correct, and press &lt;Enter&gt;.  Enter “n” if the NTP information is incorrect, and press &lt;Enter&gt;.</p> <p><b>Note:</b> If you entered “n” at the verification prompt, repeat step 17 to correct the NTP information, and then enter “y” at step 18.</p> <p>The following message displays (after entering “y” at the verification prompt):</p> <pre>The conference bridge has now been configured, the system will now reboot to reflect the changes.</pre>
19	<p>You have successfully initialized the Aastra CNX.</p> <p>When you have completed initializing and configuring the Aastra CNX, go to Step 8, “<a href="#">Using the Aastra CNX GUI via the Web</a>” on <a href="#">page 1-19</a>. For more information about logging in, see <a href="#">Chapter 3, “Configuring the Aastra CNX.”</a>”</p>

# 8

## Using the Aastra CNX GUI via the Web

### Requirement

**Important:** The JRE allows you to use the Aastra CNX graphical user interface (GUI) to configure, manage, and maintain the Aastra CNX. You must have JRE installed in order to use the Aastra CNX GUI. If your PC (running Windows) is connected to the Internet, the JRE automatically installs (if not already installed) when accessing the Aastra CNX GUI. If you do not have access to an Internet connection OR if you are using the Aastra CNX in a Linux environment, you must acquire the applicable JRE and install it manually before using the Aastra CNX GUI.

### Procedure

To begin using the Aastra CNX via the Web interface:

Step	Action
a	Open your web browser and enter the URL or IP address of the Aastra CNX. For example: <code>http://cnx1.aastra.com</code> or <code>http://192.168.112.15</code>
b	Enter the username and password provided by the System Administrator.  <b>Note:</b> Default username and password for System Administrators is " <b>cnxadmin</b> ".
c	Enter the Aastra CNX License Key and click APPLY.  The License Key can be found on the label located on the back of the Documentation CDROM envelope.  <b>Result:</b> The Aastra CNX reboots.
d	When the reboot is complete, log into the Aastra CNX by repeating steps a. and b.

Step	Action
e	For security purposes, it is advisable to change the default password by clicking the <b>"Change Password"</b> button.
f	Configure the Aastra CNX and/or schedule conferences as required.  <b>Note:</b> Available tasks are dependent on whether you are a System Administrator or Registered User.



**Notes:**

1. After port upgrades and major software releases on the Aastra CNX, a System Administrator must enter a new license key to activate the software. For more information about license key activation, see [Chapter 5, "Maintaining the Aastra CNX."](#)
  2. The Aastra CNX performs an automatic reboot as part of the upgrade process.
- 

## Configuration details (System Administrators *only*)

For configuration information on the Aastra CNX, see [Chapter 3, "Configuring the Aastra CNX."](#)

The CDROM included in the Aastra CNX package provides the Aastra CNX technical documentation in PDF format for your reference as required.

## Troubleshooting information

If you are having problems using your Aastra CNX, contact your reseller or Aastra Telecom Technical Support.

# ***Chapter 2***

## ***About the Aastra CNX***

---

### **Overview**

The Aastra Conference Network Switch (CNX) is a high-quality, state-of-the-art, voice-conferencing switch for small and medium enterprise conferencing. It mixes traditional circuit-switched telephone calls (TDM) and packet Voice-over-IP (VoIP) calls within the same conference, initiated from either a channel within Integrated Services Digital Network (ISDN) Primary Rate Interface (PRI) lines, or from its VoIP ports using Session Initiation Protocol (SIP) and/or H.323 signaling.



The Aastra CNX has four T1/E1 ports that allow up to 30 participants and 15 active conferences (30-port unit), and are upgradable to either 60 participants and 30 active conferences (60-port unit), or 120 participants and 60 active conferences. It supports permanent and scheduled (temporary) conferencing, with or without a moderator. Conference booking and invitations are made via the web interface.

The Aastra CNX is easy to install and configure for the network administrator. Managing and maintaining the Aastra CNX can be accomplished using a web browser. Diagnostic features include reporting facilities, such as booking records and activity records, to aid in assisting the administrator in determining the amount of port usage, to aid in resource planning, and to track potential security breaches by unauthorized persons. The Aastra CNX software allows you to export the data to a spreadsheet or database for subsequent analysis.

## Features and benefits

Specific features of the Aastra CNX include:

- High quality voice conferences for up to 30 participants in up to 15 active conferences, upgradable to 60 participants and 30 active conferences, or 120 participants and 60 active conferences.
- Allows for permanent and scheduled conferences
- Allows for email notification of new or modified conferences
- Comprehensive conference controls for host and participants using a simple touch-tone telephony interface
- Allows you to brand the Aastra CNX with customized greetings
- Simple to install, configure, manage, and maintain through an intuitive web interface
- Maintenance features in the web interface include setting date and time, saving and restoring configurations, downloading logs and core files, debugging, and cleaning up unnecessary files from the CompactFlash card.
- Integrates with existing office systems: connects to Private branch exchange (PBX) using ISDN PRI and IP PBXs using SIP or H.323
- Comprehensive security features
  - Web access to Aastra CNX administrative and conference booking portal via Hypertext Transfer Protocol (HTTP)
  - Authentication of users and administrators from an internal database, Microsoft Windows server or Unix/Linux server
  - Auto-generation of separate moderator and participant passcodes
  - Optional restriction of administrative access to an internal IP interface
  - All pertinent booking and usage data, including caller ID, are collected and available for subsequent audit

- Cost-effective conferencing for small to medium-size enterprises
  - Time and travel cost savings
  - Faster product development
  - Availability of decision makers
  - Global presence with low cost
  - Critical information exchange

### **Voice processing features**

The Aastra CNX offers the following technical features:

- Dedicated digital signal processor (DSP)-based speech processing for up to 64 VoIP channels using the G.729a codec, and 120 channels using G.711 codec, with G.168 echo cancellation, voice activity detection, silence suppression, and comfort noise generation
- Hardware-based audio mixer with automatic gain control, acoustic and electrical echo cancellation, adaptive noise suppression, and dominant speaker selection.
- Touchtone (dual-tone multifrequency (DTMF)) detection, suppression, and generation

## **Languages**

The following language packs are available for the Aastra CNX. Language packs include announcements and GUI prompts in a specific language.

- English (default)
- British English (available for announcements only)
- French-Canadian
- Spanish

### **Reference**

For a procedure on loading language packs, see [Chapter 5, “Maintaining the Aastra CNX.”](#)

# Aastra CNX hardware

## Description

This section provides information about the Aastra CNX chassis, the components shipped with the product, and descriptions of the front and rear panels on the unit.

## Chassis

The Aastra CNX chassis has a width of 12 in. (30.5 cm), a depth of 9 in. (22.9 cm), and weighs approximately 6 lbs. (2.73 kg).

It has an internal fan module for cooling the unit with fresh air circulation vents on the front panel and exhaust vents on the rear panel.

You can install the Aastra CNX chassis on a flat surface (desktop), or you can install it in a Telco or standard EIA 19-inch computer rack.

### Reference

For information about installing the desktop and rackmount versions, and starting up the Aastra CNX for the first time, see the *Aastra CNX Conference Network Switch Installation and Setup Guide*.

## Front panel

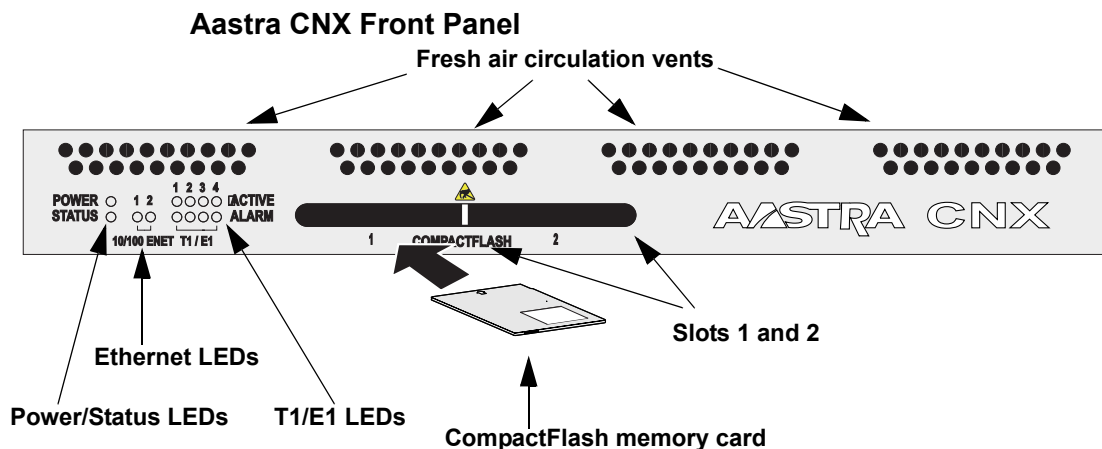
The Aastra CNX front panel consists of the following:

- Status/Power LEDs
- Two (2) Ethernet LEDs
- Four (4) pairs T1/E1 LEDs
- Two (2) CompactFlash memory card slots (slot 1 and slot 2)



**Note:** One (1) CompactFlash memory card is included with the Aastra CNX unit and is shipped installed in slot 1. Aastra CNX supports True IDE mode, and Type I and Type II cards.

The following illustration shows the Aastra CNX front panel.



The following table describes each of the components on the Aastra CNX front panel.

Front Panel Component	State	Meaning
<b>Power LED</b>	OFF ON ( <b>green</b> )	Power off Power on
<b>Status LED</b>	OFF ON ( <b>green</b> ) ON ( <b>red</b> ) ON ( <b>red</b> ) for 1 second	Power off Ready to take calls Alarm condition Normal condition at bootup
<b>ENET LEDs</b> (1, 2)	OFF ON ( <b>green</b> )  FLASH ( <b>green</b> )	No link present Link present and online: normal operating condition Rx/Tx activity
<b>T1/E1 LEDs</b> (Pairs 1, 2, 3, 4)	<u>Top LED</u>  OFF ON ( <b>green</b> )	No link provisioned or link in alarm status Link present and online with no errors or alarms detected
	<u>Bottom LED</u>  OFF ON ( <b>amber</b> ) ON ( <b>red</b> )	No link provisioned or no alarm Physical link is in yellow alarm state. Physical link is in red alarm state.
<b>Slot 1/Slot2</b>	Slots to accept a CompactFlash memory card.  <b>Note:</b> One (1) CompactFlash memory card is included with the Aastra CNX unit and is shipped installed in slot 1. Aastra CNX supports True IDE mode, and Type I and Type II cards.	

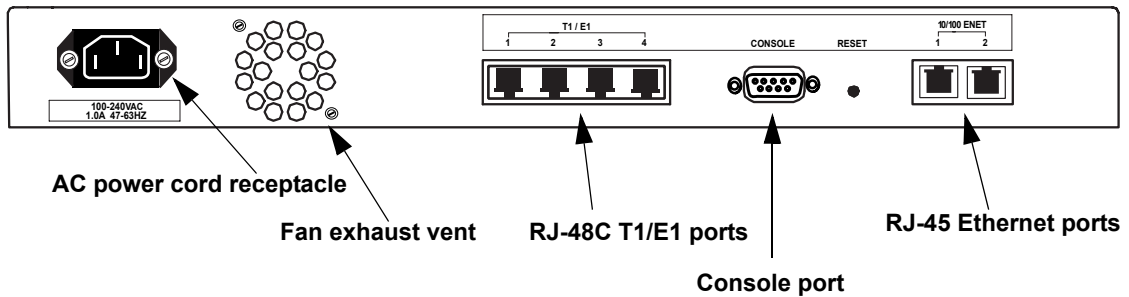
## Rear panel

The Aastra CNX rear panel consists of the following:

- AC power cord receptacle
- Four RJ-48C T1/E1 ports
- One 9-pin female DB-9 serial console port (for RS-232 cable)
- Two RJ-45, 10/100BaseT Ethernet ports

The following illustration shows the Aastra CNX rear panel.

### Aastra CNX Rear Panel



# Aastra CNX software

## Description

This section provides the following software features for the Aastra CNX:

- [Protocols and RFCs](#)
- [Conference capabilities](#)
- [Users and user privileges](#)
- [Reporting capabilities](#)
- [Aastra CNX upgrades](#)
- [Protocols and RFCs](#)

## Protocols and RFCs

You can connect the Aastra CNX directly to the Public Switched Telephone Network (PSTN), or to a Private Branch Exchange (PBX). It supports both user and network-side PRI.

The Aastra CNX supports the following protocols:

- ISDN PRI for PBX and PSTN interconnection:
  - American National Standards Institute (ANSI) National ISDN-2 (NI2)
  - European Telecommunications Standards Institute (ETSI) NET5
  - Nortel DMS-100 Custom
  - Lucent 5ESS Custom
- Session Initiation Protocol (SIP) call control
- H.323 call control
- Real-Time Transport Protocol (RTP) for VoIP media streams, with RFC 2833 DTMF detection
- Winbind for integration with Microsoft Windows servers

- Network Information Service (NIS) for integration with Unix and Linux servers
- Simple Mail Transfer Protocol (SMTP) for integration with email systems

When using H.323, the Aastra CNX functions as a terminal appearing as a peer to H.323-based IP phones. You can configure the Aastra CNX to work with one or more H.323 gatekeepers.

When using SIP, the Aastra CNX functions as a SIP user-agent. You can configure the Aastra CNX to work with one or more SIP proxies which may be acting as an IP PBX. The Aastra CNX conforms to the following RFCs:

- RFC 3261, Session Initiation Protocol
- RFC 3262, Reliability of Provisional Responses in the Session Initiation Protocol
- RFC 2327, Session Description Protocol
- RFC 2806, URLs for Telephone Calls

The Aastra CNX receives audio streams for VoIP connections over RTP on top of User Datagram Protocol (UDP), with RTCP providing periodic reports on the reception of the audio stream. The Aastra CNX conforms to the following RTP RFCs:

- RFC 3550, RTP: A Transport Protocol for Real-Time Applications
- RFC 2833, RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals

## Conference capabilities

Each Aastra CNX supports 30 conference participants with up to 15 active conferences (60-port unit supports 60 participants with up to 30 active conferences; 120-port unit supports 120 participants with up to 60 active conferences). Participants can connect by TDM, VoIP, or both.

The following table describes the type of Aastra CNX conferences and the features associated with these conference types.

Conference types	Description	Conference type features
<b>Permanent</b>	<p>This type of conference is always available. It uses ports from a pool dedicated for permanent conferences.</p> <p>You can use a permanent moderated bridge as a personal bridge. Participants are put on hold until the moderator joins and are disconnected when the moderator leaves. The first person to join activates the conference in this type of bridge.</p> <p><b>Note:</b> Permanent conferences must be setup by a system administrator.</p>	<p><b>Moderated and Unmoderated</b> - A user(s) is designated as a moderator(s). The moderator uses a PIN that provides full control over the conference. You can also enable or disable a moderator as the dominant speaker of the conference.</p>
<b>Scheduled</b>	<p>This type of conference exists for a specific duration and uses a reserved number of ports for the conference. Scheduled conferences can handle early arrivals and over-runs and do not require moderators.</p> <p>Scheduled conferences can also have multiple recurrences of a conference.</p>	<p><b>Note:</b> The moderator PIN is different from the conference participant's PIN.</p>

## Port resource management

You can configure Aastra CNX switches with a number of ports to be held in reserve for specific conferences. If all non-reserved ports on the Aastra CNX are in use, any attempt to join a conference on that Aastra CNX results in a busy signal. When scheduling conferences, the Aastra CNX does not permit allocation of reserved ports if it prevents existing reservations to be met.

## Users and user privileges

The Aastra CNX supports three types of users with various user privileges:

- System Administrators
- Registered Users
- Conference Participants

The following paragraphs describe the privileges for each type of user.

### System Administrator

System administrators have access privileges to all Aastra CNX management features and functions. The following table provides a list of available Aastra CNX functions that a system administrator can perform.

Function	Description
<b>Configure</b>	<ul style="list-style-type: none"><li>• Perform initial configuration using setup script</li><li>• Determine language to be used on Aastra CNX</li><li>• Set number of ports for conference</li><li>• Set external servers (DNS and NTP)</li><li>• Set management interface</li><li>• Configure ISDN PRI attributes</li><li>• Set Windows and/or Network Information System authentication</li><li>• Determine conference passcode length, leeway, and warning time</li><li>• Configure conference VoIP attributes</li><li>• Configure SIP, H.323, and/or RTP</li><li>• Change password after logging in</li><li>• Return Aastra CNX to factory defaults</li></ul>

*(continued)*

Function	Description
<b>Manage</b>	<ul style="list-style-type: none"><li>• Add and delete users and system administrators</li><li>• Modify passwords</li><li>• Create, modify, and delete permanent conferences with or without moderators</li><li>• Create, modify and delete scheduled conferences with or without moderators</li><li>• Set tones and lanaguage announcements</li><li>• Set time zones for conferences</li><li>• Set duration of conferences</li><li>• Set recurrence of conferences</li></ul>
<b>Maintain/Troubleshoot</b>	<ul style="list-style-type: none"><li>• Perform software updates</li><li>• Load/remove lanaguage packs</li><li>• Load/remove customized greetings</li><li>• Display Aastra CNX operational status and monitor real-time conference activity</li><li>• Load new software License Keys</li><li>• Reboot CNX</li><li>• Save/restore Aastra CNX configuration</li><li>• Set Aastra CNX date/time</li><li>• Download call data and conference data logs for use with report generation applications such as Microsoft Excel or Microsoft Access</li><li>• Delete unwanted files from CompactFlash</li></ul>

## Registered User

The following table provides a list of available Aastra CNX functions that a registered user can perform.

Function	Description
<b>Manage own conferences</b>	<ul style="list-style-type: none"><li>• Create, modify, and delete conferences with or without moderators</li></ul>

## Conference participant

Conference participants have access to a conference via dual-tone multifrequency (DTMF) using a passcode. One or more conference participants can be a moderator which provides additional control over the conference. The following table provides a list of available Aastra CNX functions that a conference participant can perform.

Function	Description
<b>Manage</b>	<ul style="list-style-type: none"> <li>• Access live conferences when required using a passcode (DTMF code)</li> <li>• For live conferences, a conference participant can: <ul style="list-style-type: none"> <li>– Mute/unmute self</li> <li>– Initiate help sequence (unrecognized DTMF key sequence automatically elicits help)</li> <li>– Listen to roll call</li> <li>– Extend a conference if required (unmoderated conferences only)</li> </ul> </li> <li>• Can act as a moderator for the conference which provides additional control. A moderator can additionally perform the following: <ul style="list-style-type: none"> <li>– Lock/unlock the conference</li> <li>– Mute all other participants and unmute self (lecture mode)</li> <li>– Mute participant</li> <li>– Eject participant</li> <li>– Assign moderator privileges</li> <li>– Request additional ports</li> <li>– Extend a conference (unmoderated conferences only)</li> <li>– Terminate a conference</li> </ul> </li> </ul> <p><b>Note:</b> A conference can have multiple moderators that can pass tasks among themselves.</p>

## Reporting capabilities

The reporting feature on the Aastra CNX provides the following:

- Assists a system administrator in gauging port usage (and abuses), with a view to resource planning.
- Tracks potential security breaches by unauthorized users logging into conferences

The Aastra CNX provides raw data called Call Detail Records (CDRs) that are stored in logs on the CompactFlash. There are two types of CDR logs:

- Call and conference activity CDR logs (**cdrllog**)
- Conference scheduling CDR logs (**confcdrlog**)

The Aastra CNX automatically generates the CDR logs in comma-separated value (CSV) format during call activity (ISDN, H.323, and SIP), and during conference activity of an active 24 hour period and when the Aastra CNX starts up.

You can download these CDRs to your PC and use an external application (such as, Microsoft Excel or Microsoft Access), to produce reports. You can use CDR log files for billing purposes and for debugging and troubleshooting the Aastra CNX as required.

### Reference

For a procedure on downloading CDRs, see [Chapter 5, “Maintaining the Aastra CNX.”](#)

For more information about the contents of the CDRs, see [Appendix B, “Additional information about CDR logs.”](#)

## Aastra CNX upgrades

The Aastra CNX is field upgradable from a 30-port unit to a 60- or 120-port unit. The following table shows the potential number of active participants and conferences for each type of unit.

Aastra CNX	Number of active participants	Number of active conferences
30-port unit	30	15
60-port unit	60	30
120-port unit	120	60

## Software requirements

The following table provides the minimum software you need to configure and manage conferences on the Aastra CNX.

Software	Minimum requirements
Web browser	Any Web browser running Java 2 Platform V1.5.0 Standard Edition or later
<p>Java Runtime Environment (JRE)</p> <p><b>Note:</b> The JRE allows you to use the Aastra CNX graphical user interface (GUI) to configure, manage, and maintain the Aastra CNX.</p> <p>You must have JRE installed in order to use the Aastra CNX GUI.</p> <p><b>If your PC (running Windows) is connected to the Internet</b>, the JRE automatically installs (if not already installed) when accessing the Aastra CNX GUI.</p> <p><b>If you do not have access to an Internet connection OR if you are using the Aastra CNX in a Linux environment</b>, you must acquire the applicable JRE and install it manually before using the Aastra CNX GUI.</p>	JRE 1.5.0 Standard Edition or later

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# Chapter 3

## Configuring the Aastra CNX

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### Overview

#### Description

You perform an initial configuration of the Aastra CNX from the console port. Initial configuration includes setting specific essential parameters, including the unit's network settings. Successful initial configuration allows you to complete the unit's software configuration using a web-based GUI.

#### Initial configuration

After installing the Aastra CNX, you must initially configure the unit to operate in your network by specifying its hostname, Ethernet IP address, Netmask, default gateway, NTP servers, and date and time. When you power up the Aastra CNX for the first time, a setup script runs to allow you to initially configure the unit for your network.

#### Reference

For more information about the Aastra CNX hardware installation and for a procedure to perform the initial configuration, see the *Aastra CNX Conference Network Switch Installation and Setup Guide*.

## Modifying the initial configuration

After initially configuring the Aastra CNX using the setup script, you can modify the settings using additional options that the script provides.

The following procedures provide additional options you can perform using the setup script:

- (1) Run network and time configuration  
(See *Aastra CNX Installation and Setup Guide* for more information on option 1)
- (2) [Change Telnet access](#)
- (3) [Set date and time](#)
- (4) [Configure Network Time Protocol \(NTP\)](#)
- (5) [Force reboot](#)

### (2) Change Telnet access

This option allows you to enable or disable Telnet on the Aastra CNX. Enabling Telnet provides you the ability to Telnet into the Aastra CNX as required. Use the following procedure to change Telnet access on the Aastra CNX.



**Note:** If at any time during the initial configuration process, you want to backout of the configuration, press <ESC> to cancel.

---

Step	Action
1	<p>At the Aastra CNX Main Menu, select option <b>2</b>, and press &lt;Enter&gt;.</p> <pre> Welcome to the Aastra CNX Conference Network Switch Main Menu  1. Run network and time configuration 2. <b>Change Telnet access</b> 3. Set date and time 4. Configure Network Time Protocol (NTP) 5. Force reboot  Please select an option: 2↵  The following prompt displays:  1. Enable 2. Disable  [2]: </pre>
2	<p>Enter “<b>1</b>” to enable Telnet, or enter “<b>2</b>” to disable Telnet on the Aastra CNX, and press &lt;Enter&gt;.</p> <pre> 1 ↵ </pre> <p>The setting is saved and displays the main menu.</p>
3	<p>You have successfully changed Telnet access on the Aastra CNX.</p>

### (3) Set date and time

This option allows you to modify the date and time that you set during the “Run network and time configuration” procedure. Use the following procedure to modify the date and time on the Aastra CNX.



**Note:** If at any time during the initial configuration process, you want to backout of the configuration, press <ESC> to cancel.

Step	Action
1	<p>At the Aastra CNX Main Menu, select option <b>3</b>, and press &lt;Enter&gt;.</p> <pre> Welcome to the Aastra CNX - Conference Bridge Configuration Utility  1. Run network and time configuration 2. Change Telnet access 3. <b>Set date and time</b> 4. Configure Network Time Protocol (NTP) 5. Force reboot  Please select an option: 3 ↵  The following message and prompts display:  Unpacking timezones, please wait one moment...  Timezone Configuration  Africa      Chile      GMT        Jamaica    Navajo     US America    Cuba      GMT+0      Japan      PRC        UTC Antarctica EET       GMT-0      Kwajalein PST8PDT    Universal Arctic     EST       GMT0       Libya      Pacific    W-SU Asia       EST5EDT   Greenwich MET        Poland     WET Atlantic   Egypt    HST        MST        Portugal   Zulu Australia Eire     Hongkong   MST7MDT    ROC Brazil     Etc      Iceland    Mexico     ROK CET        Europe   Indian     Mideast    Singapore CST6CDT    GB       Iran       NZ         Turkey Canada     GB-Eire  Israel     NZ-CHAT    UCT  Enter a choice, "back" to go up one level, or "cancel" to cancel: </pre>


(continued)

Step	Action
2	<p>Enter your local timezone and press &lt;Enter&gt;. For example:</p> <p>Enter a choice, "back" to go up one level, or "cancel" to cancel: <b>EST</b> ↵</p> <p>The following message and prompt displays:</p> <p>Timezone: EST</p> <p>Are you sure? (y/n)</p>
3	<p>Enter "y" if the timezone is correct, and press &lt;Enter&gt;.</p> <p>Enter "n" if the timezone is incorrect, and press &lt;Enter&gt;.</p> <p><b>Note:</b> If you entered "n" at the verification prompt, repeat step 2 to correct the timezone, and then enter "y" at step 3.</p> <p>The following message and prompts display (after entering "y" at the verification prompt):</p> <p>Please enter the date and time:</p> <p>Four-digit year [2005]:</p> <p>Month [03]:</p> <p>Day [09]:</p> <p>Hour [19]:</p> <p>Minutes [40]:</p>
4	<p>The defaults for the date and time are the current date and time on your PC.</p> <p>If these defaults are correct, press &lt;Enter&gt; at each prompt without making an entry.</p> <p>If a default is incorrect, enter the correct value and press &lt;Enter&gt; to continue. In the following example, <b>14</b> is entered for the hour since the default of <b>19</b> is incorrect.</p> <p>Four-digit year [2005]:</p> <p>Month [03]:</p> <p>Day [09]:</p> <p>Hour [19]: <b>14</b></p> <p>Minutes [40]:</p> <p>The following displays:</p> <p>Before the following information is configured, please verify the information below is correct before proceeding.</p> <p>Date: 2005-03-09 14:40:00</p> <p>Is this the correct time (y/n) [n]:</p>

Step	Action
5	<p>Enter “<b>y</b>” if the date and time are correct, and press &lt;Enter&gt;. Enter “<b>n</b>” if the date and time are incorrect, and press &lt;Enter&gt;.</p> <p><b>Note:</b> If you entered “<b>n</b>” at the verification prompt, repeat step 4 to correct the date and time, and then enter “<b>y</b>” at step 5.</p> <p>The setting is saved and displays the main menu.</p>
6	You have successfully modified the date and time on the Aastra CNX.

(4) Configure Network Time Protocol (NTP)

This option allows you to modify the Network Time Protocol (NTP) that you set during the “Run network and time configuration” procedure. Use the following procedure to modify the NTP on the Aastra CNX.



**Note:** If at any time during the initial configuration process, you want to backout of the configuration, press <ESC> to cancel.


Step	Action
1	<p>At the Aastra CNX Main Menu, select option <b>4</b>, and press &lt;Enter&gt;.</p> <pre> Welcome to the Aastra CNX - Conference Bridge Configuration Utility  1.  Run network and time configuration 2.  Change Telnet access 3.  Set date and time 4.  <b>Configure Network Time Protocol (NTP)</b> 5.  Force reboot  Please select an option: 4 ↵  The following message and prompts display:  Configuring Network Time Protocol (NTP)...  You can configure up to 4 NTP servers.  To remove an existing server, set it's address to 0.0.0.0.  If no valid servers are given then ntp will be disabled.  Do you want to continue (y/n) [n]:</pre>
2	<p>Enter “y” to continue, and press &lt;Enter&gt;.</p> <p>The following prompts display:</p> <pre> NTP Server #1: [pool.ntp.org]: NTP Server #2: [pool.ntp.org]: NTP Server #3: [pool.ntp.org]: NTP Server #4: [pool.ntp.org]:</pre>


(continued)

Step	Action
3	<p>Enter up to four NTP servers in your network, and press &lt;Enter&gt;. For example:</p> <pre>NTP Server #1: [pool.ntp.org]: 192.167.2.11 ↵ NTP Server #2: [pool.ntp.org]: 192.167.2.12 ↵ NTP Server #3: [pool.ntp.org]: 0.0.0.0 ↵ NTP Server #4: [pool.ntp.org]: 0.0.0.0 ↵</pre> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. You can enter up to four NTP servers. If you have less than four NTP servers, enter the IP address(es) for the NTP servers that you have, and then enter 0.0.0.0 for the remaining NTP entries.</li> <li>2. If you do not have your own NTP server, and the Aastra CNX has Internet connectivity, you may use the default server entry of pool.ntp.org.</li> <li>3. Aastra Telecom <b>strongly recommends</b> the use of NTP servers, either your own or the default servers. NTP servers avoid clock slippage and inconsistent conference start times on the Aastra CNX. However, you may completely disable the NTP server feature by setting the IP address of all four servers to 0.0.0.0.</li> </ol> <p>The following displays:</p> <p>Before the following information is configured, please verify the information below is correct before proceeding.</p> <pre>NTP Server #1 : 192.167.2.11 NTP Server #2 : 192.167.2.12</pre> <p>Is this information correct (y/n) [n] :</p>
4	<p>Enter “y” if the NTP information is correct, and press &lt;Enter&gt;. Enter “n” if the NTP information is incorrect, and press &lt;Enter&gt;.</p> <p><b>Note:</b> If you entered “n” at the verification prompt, repeat step 3 to correct the NTP information, and then enter “y” at step 4.</p>
5	<p>You have successfully modified NTP on the Aastra CNX.</p>

(5) Force reboot

This option allows you to manually force a reboot of the Aastra CNX.

 **Warning:** Use caution when using the reboot option. If the Aastra CNX is in use and you perform a reboot, all active conferences are aborted.

 **Note:** If at any time during the initial configuration process, you want to backout of the configuration, press <ESC> to cancel.

Step	Action
1	<p>At the Aastra CNX Main Menu, select option <b>4</b>, and press &lt;Enter&gt;.</p> <pre> Welcome to the Aastra CNX - Conference Bridge Configuration Utility  1. Run network and time configuration 2. Change Telnet access 3. Set date and time 4. Configure Network Time Protocol (NTP) 5. Force reboot  Please select an option: 4↵  The following prompt displays:  Are you sure you want to reboot the Aastra CNX (y/n)?  <b>Caution:</b> Rebooting the Aastra CNX causes interruption in the services that the unit is providing. Aastra Telecom recommends that only System Administrators reboot the Aastra CNX when required.</pre>
2	<p>Enter <b>“y”</b> if you still want to reboot the Aastra CNX. Enter <b>“n”</b> if you do not want to reboot the Aastra CNX.</p> <p>After entering <b>“y”</b> at the prompt, the following displays:</p> <pre> The Aastra CNX is rebooting.....  Wait for the Aastra CNX to reboot before using the Aastra CNX Configuration Utility or the Aastra CNX GUI.</pre>
3	<p>You have successfully rebooted the Aastra CNX.</p>

# Logging in to the Aastra CNX

## Description

After initial setup of the Aastra CNX network information via the console port, the Aastra CNX becomes active and ready for you to continue configuration of the software to manage users, conferences, and the unit using the GUI.

## Requirements

- You must have performed the initial network configuration using the procedures in the *Aastra CNX Installation and Setup Guide*, Step 7, “Configure the network settings.”
- At first-time login for system administrators, the default user ID is **cnxadmin** (all lowercase) and the default password is **cnxadmin**. For security purposes, you should change your password

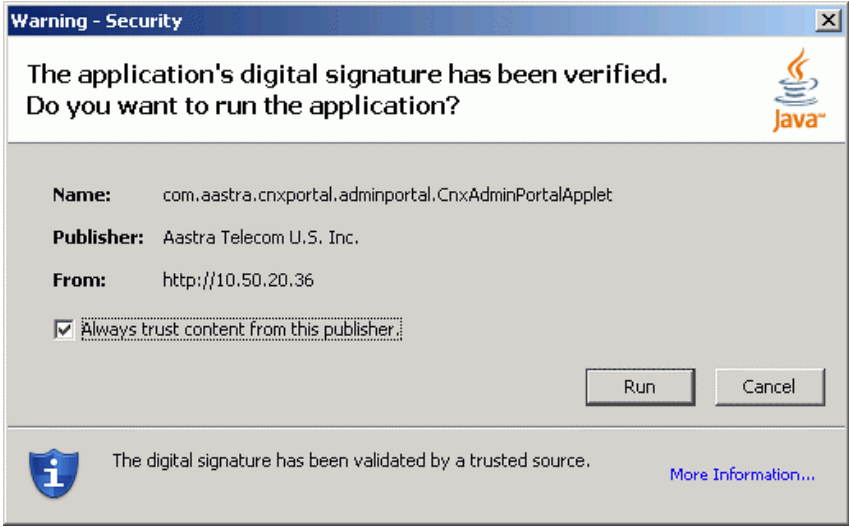


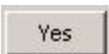

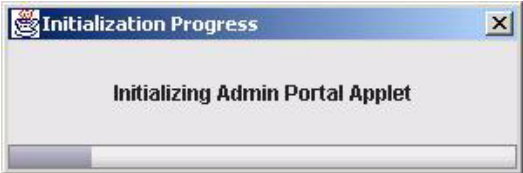

### Notes:


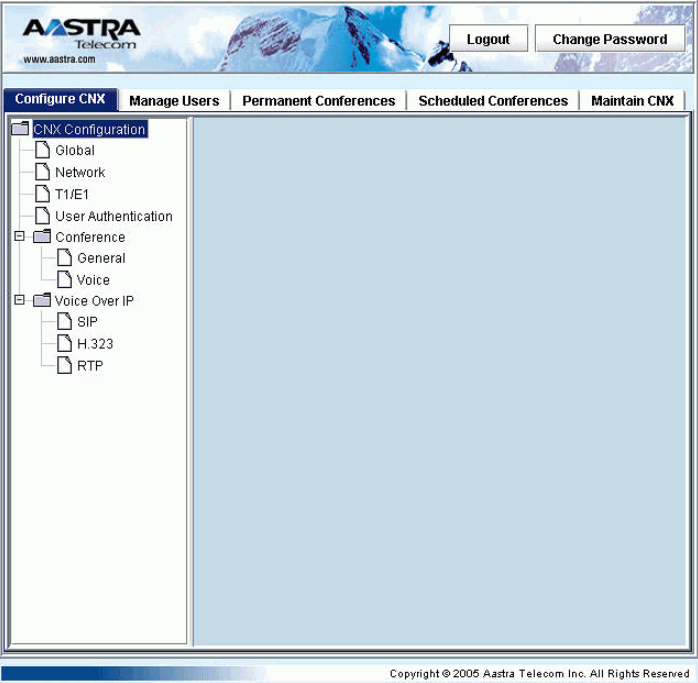
1. To change the password after logging in, click on the “Change Password” button in the Aastra CNX window.
  2. To change the default user ID after logging in, see [Chapter 4, “Managing the Aastra CNX.”](#)
-

## Procedure

Use the following procedure to log into the Aastra CNX.

Step	Action
1	<p>Open your Web browser.</p> <p>Enter the URL or IP address of the Aastra CNX and press &lt;Return&gt;. For example:</p> <p><b>http://CNX.aastra.com</b> or <b>http://192.168.2.6</b></p> <p><b>Result:</b> A digital certificate displays. This certificate warrants to the user that the downloaded applet is indeed provided by Aastra Telecom, and is safe to run on their computer.</p> <div data-bbox="349 621 1190 1149"><p>The dialog box is titled "Warning - Security" and contains the text: "The application's digital signature has been verified. Do you want to run the application?". It includes a Java logo in the top right corner. Below the text, it lists the following details: Name: com.aastra.cnxportal.adminportal.CnxAdminPortalApplet, Publisher: Aastra Telecom U.S. Inc., and From: http://10.50.20.36. There is a checkbox labeled "Always trust content from this publisher." which is checked. At the bottom right are "Run" and "Cancel" buttons. At the bottom left is an information icon (i) and the text "The digital signature has been validated by a trusted source." with a link "More Information..." to the right.</p></div>

Step	Action
2	<p>Click  to accept the certificate.</p> <p><b>Note:</b> Clicking <b>YES</b> accepts the certificate for the current session <i>only</i>. If you log out and log back into the Aastra CNX GUI, this certificate displays again.</p> <p>or</p> <p>Click  to always accept the certificate from the current PC.</p> <p><b>Note:</b> Clicking <b>ALWAYS</b> prevents the certificate from displaying during future login sessions on the current PC.</p> <p><b>Result:</b> If you clicked <b>YES</b> or <b>ALWAYS</b>, the Aastra CNX proceeds to install the latest version of the Java Plug-in to your PC.</p>
3	<p>When the Java console window is up and running, the Aastra CNX GUI initializes and the Username/Password screen displays.</p> <p>.</p> <div> </div>

Step	Action
4	<p>Enter your Aastra CNX user name and password, and then click  .</p> <p>For a procedure to change your password, see <a href="#">“Configuring the Aastra CNX”</a> on <a href="#">page 3-14</a>. To change your user ID, see <a href="#">Chapter 4, “Managing the Aastra CNX.”</a></p> <p><b>Result:</b> The Aastra CNX Administrative Web Portal main window displays.</p>  <p><b>WARNING:</b> You are allowed three attempts to input the correct username and password. If all three attempts fail, close your browser and reopen a new browser window and try logging in again.</p> <p>The Aastra CNX main window for a system administrator allows you to perform the following:</p> <ul style="list-style-type: none"> <li>• Change passwords</li> <li>• Configure users and system administrators</li> <li>• Manage users and system administrators</li> <li>• Manage permanent and scheduled conferences</li> <li>• Maintain the system</li> </ul>
5	Click <b>Logout</b> to logout of the Aastra CNX GUI.

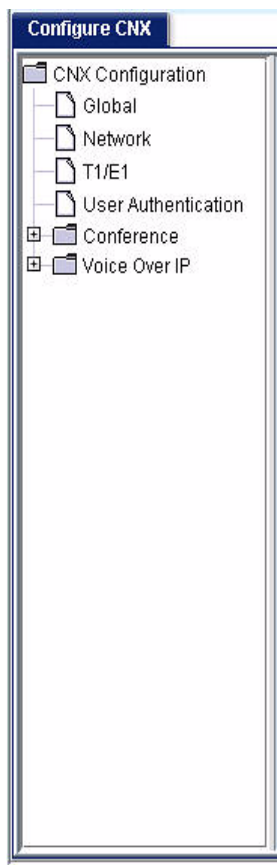
# Configuring the Aastra CNX

## Description

You configure the Aastra CNX using the GUI provided by the downloaded applet running in a Web browser.

At the Aastra CNX main window, the **Configure CNX** tab displays the configurable objects. Clicking on a configurable object displays a group of attributes and their values that you can configure.

The following figure shows the Aastra CNX configuration tree structure.



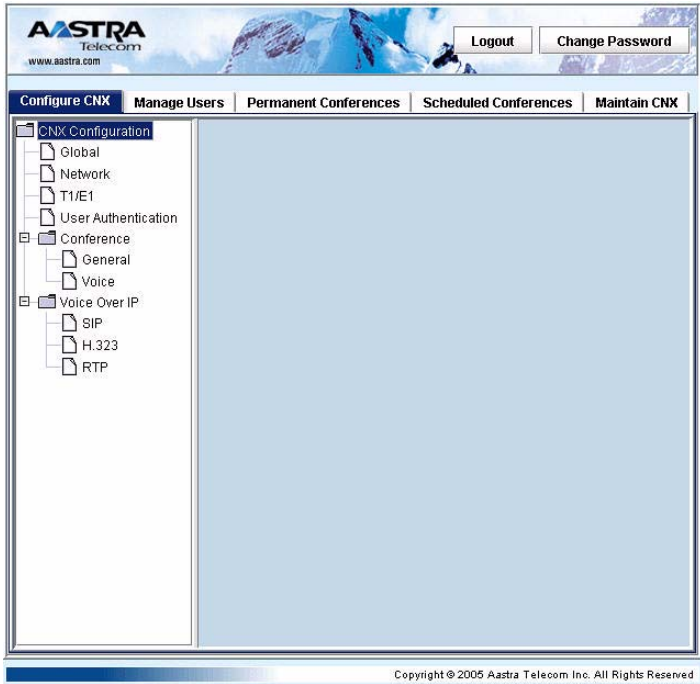
The following parameters may be configured:

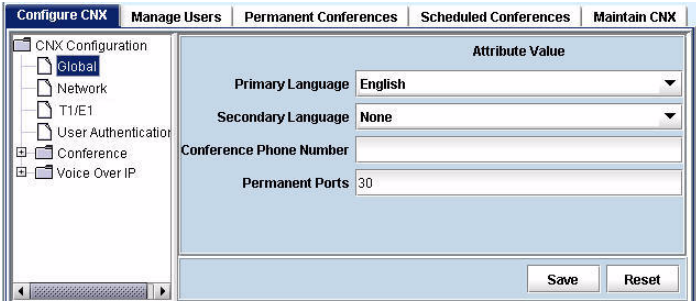
Parameter	What you configure
<b>Global</b>	<ul style="list-style-type: none"> <li>• Languages for voice prompts</li> <li>• Secondary Language for voice prompts</li> <li>• Conference phone number</li> <li>• Number of ports to reserve for permanent (reservationless) conferences</li> </ul>
<b>Network</b>	<ul style="list-style-type: none"> <li>• IP addresses</li> <li>• Netmasks</li> <li>• Default gateway address</li> <li>• Host name</li> <li>• Domain name</li> <li>• Domain Name Servers (DNSs)</li> <li>• Server information</li> <li>• Management Interface</li> <li>• File Transfer Protocol (FTP) (enable or disable)</li> <li>• Network Time Protocol (NTP) Servers</li> </ul>
<b>T1/E1</b>	<ul style="list-style-type: none"> <li>• Framing Types</li> <li>• Clocking</li> <li>• Switch Types</li> <li>• Direction</li> <li>• Line Coding</li> <li>• Line Framing</li> <li>• Loopback</li> <li>• Line Buildout</li> <li>• CRC (E1 only)</li> <li>• Overlap (E1 only)</li> <li>• Number of Digits (E1 only)</li> <li>• Ports 1 through 4 (enable or disable)</li> </ul>
<b>User Authentication</b>	<ul style="list-style-type: none"> <li>• Windows Authentication</li> <li>• Network Information Service (NIS) Authentication</li> </ul>
<b>Conference</b>	<ul style="list-style-type: none"> <li>• Conference passcode lengths</li> <li>• Period of time when callers can access a conference before it starts.</li> <li>• Warning time period of impending conference ending</li> <li>• Voice quality parameters</li> </ul>
<b>Voice over IP</b>	<ul style="list-style-type: none"> <li>• Session Initiation Protocol (SIP) service parameters</li> <li>• H.323 service parameters</li> <li>• Real-Time Transport Protocol (RTP) parameters</li> </ul>


# Procedures

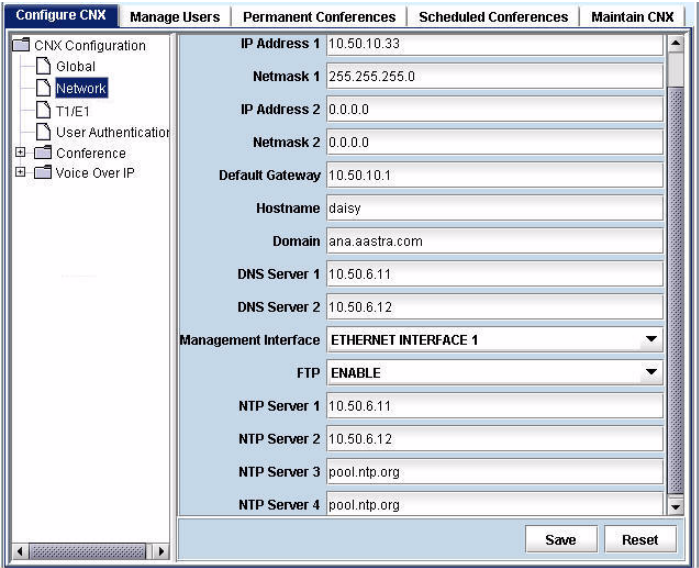
## General configuration

Use the following procedure to configure the Aastra CNX to communicate in your network.


Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	Click the <b>Configure CNX</b> tab in the Aastra CNX main window. 

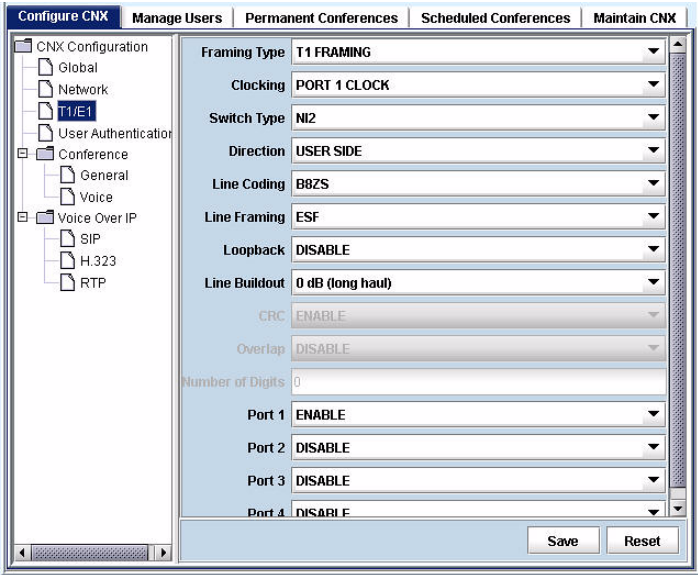
Step	Action												
Global Configuration													
3	<p>Under the <b>CNX Configuration</b> object, click “<b>Global</b>”.</p> <p><b>Result:</b> The Aastra CNX global attribute fields display.</p> 												
4	<p>Configure the attributes as required.</p> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>Primary Language</td><td>English</td><td>English British English French-Canadian Spanish  <b>Description:</b> Primary language that plays for the conference greeting on the Aastra CNX. For a procedure on loading language packs see <a href="#">Chapter 5, “Maintaining the Aastra CNX.”</a>.</td></tr><tr><td>Secondary Language</td><td>None</td><td>None English British English French-Canadian Spanish  <b>Description:</b> Secondary language that plays for the conference greeting on the Aastra CNX. For a procedure on loading language packs see <a href="#">Chapter 5, “Maintaining the Aastra CNX.”</a>  <b>Note:</b> If you select a secondary language, the Aastra CNX conference greeting plays in this language after the primary language conference greeting.</td></tr><tr><td>Conference Phone Number</td><td>000-0000</td><td><b>Description:</b> Phone number to dial for reaching the conference. This number is sent out in emails to moderators when conferences are booked.</td></tr></table>	Attribute	Default	Valid Values/Description	Primary Language	English	English British English French-Canadian Spanish  <b>Description:</b> Primary language that plays for the conference greeting on the Aastra CNX. For a procedure on loading language packs see <a href="#">Chapter 5, “Maintaining the Aastra CNX.”</a> .	Secondary Language	None	None English British English French-Canadian Spanish  <b>Description:</b> Secondary language that plays for the conference greeting on the Aastra CNX. For a procedure on loading language packs see <a href="#">Chapter 5, “Maintaining the Aastra CNX.”</a>  <b>Note:</b> If you select a secondary language, the Aastra CNX conference greeting plays in this language after the primary language conference greeting.	Conference Phone Number	000-0000	<b>Description:</b> Phone number to dial for reaching the conference. This number is sent out in emails to moderators when conferences are booked.
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Conference Phone Number	000-0000	<b>Description:</b> Phone number to dial for reaching the conference. This number is sent out in emails to moderators when conferences are booked.											

Step	Action																										
4 (cont'd)	<div>Global configuration attributes continued</div> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>Permanent Ports  <b>Note:</b> This attribute must be set to an appropriate number of ports before using Permanent conferences.</td><td>0</td><td><b>Note:</b> Values are: 0 to 30 for 30-port unit 0 to 60 for 60-port unit 0 to 120 for 120-port unit  <b>Description:</b> Number of ports reserved for permanent conferences. This value is subject to ports being physically configured on the Aastra CNX, either T1/E1 ports and/or VoIP ports. It is also subject to the licensed number of ports.  <b>Note:</b> Permanent ports are not available for scheduled conferences.  You must provision the T1/E1 ports, <a href="#">SIP service</a>, or <a href="#">H.323 service</a> on the Aastra CNX before setting the Permanent Port value. See the following table for applicable settings.  <table><tr><th><u>Physical Ports Enabled</u></th><th><u>Maximum Permanent Port Value</u></th></tr><tr><td>1 T1</td><td>23</td></tr><tr><td>2 T1s</td><td>46</td></tr><tr><td>4 T1s</td><td>92</td></tr><tr><td>1 E1</td><td>30</td></tr><tr><td>2 E1s</td><td>60</td></tr><tr><td>4 E1s</td><td>120</td></tr><tr><td>SIP or H.323 service enabled</td><td>30</td></tr><tr><td></td><td>60</td></tr><tr><td></td><td>120</td></tr></table></td></tr></table>	Attribute	Default	Valid Values/Description	Permanent Ports  <b>Note:</b> This attribute must be set to an appropriate number of ports before using Permanent conferences.	0	<b>Note:</b> Values are: 0 to 30 for 30-port unit 0 to 60 for 60-port unit 0 to 120 for 120-port unit  <b>Description:</b> Number of ports reserved for permanent conferences. This value is subject to ports being physically configured on the Aastra CNX, either T1/E1 ports and/or VoIP ports. It is also subject to the licensed number of ports.  <b>Note:</b> Permanent ports are not available for scheduled conferences.  You must provision the T1/E1 ports, <a href="#">SIP service</a> , or <a href="#">H.323 service</a> on the Aastra CNX before setting the Permanent Port value. See the following table for applicable settings.  <table><tr><th><u>Physical Ports Enabled</u></th><th><u>Maximum Permanent Port Value</u></th></tr><tr><td>1 T1</td><td>23</td></tr><tr><td>2 T1s</td><td>46</td></tr><tr><td>4 T1s</td><td>92</td></tr><tr><td>1 E1</td><td>30</td></tr><tr><td>2 E1s</td><td>60</td></tr><tr><td>4 E1s</td><td>120</td></tr><tr><td>SIP or H.323 service enabled</td><td>30</td></tr><tr><td></td><td>60</td></tr><tr><td></td><td>120</td></tr></table>	<u>Physical Ports Enabled</u>	<u>Maximum Permanent Port Value</u>	1 T1	23	2 T1s	46	4 T1s	92	1 E1	30	2 E1s	60	4 E1s	120	SIP or H.323 service enabled	30		60		120
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5	Click  to save the configuration to the Aastra CNX and to the CompactFlash card.																										

Step	Action
Network Configuration	
6	<div><div>Under the <b>CNX Configuration</b> object, click <b>"Network"</b>.</div><div>Result: The Aastra CNX network attribute fields display.</div><div></div></div>

Step	Action																																				
7	<div>Configure the attributes as required.</div> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>IP Address 1</td><td>&lt;Current IP address of the Aastra CNX&gt;</td><td><b>Description:</b> IP address for Ethernet 1, as initially configured from the console.</td></tr><tr><td>Netmask 1</td><td>&lt;Current netmask address of the Aastra CNX&gt;</td><td><b>Description:</b> Netmask address for Ethernet 1.</td></tr><tr><td>IP Address 2</td><td>0.0.0.0</td><td><b>Description:</b> IP address of a second Ethernet port.</td></tr><tr><td>Netmask 2</td><td>0.0.0.0</td><td><b>Description:</b> Netmask address of a second Ethernet port.</td></tr><tr><td>Default Gateway</td><td>&lt;Current default gateway of the Aastra CNX&gt;</td><td><b>Description:</b> Default gateway IP address.</td></tr><tr><td>Hostname</td><td>&lt;Current hostname of the Aastra CNX&gt;</td><td><b>Description:</b> Hostname of the Aastra CNX.</td></tr><tr><td>Domain</td><td>&lt;Current domain name of the Aastra CNX&gt;</td><td><b>Description:</b> Domain name of the Aastra CNX.</td></tr><tr><td>DNS Server 1</td><td>&lt;Current DNS Server 1 address of Aastra CNX&gt;</td><td><b>Description:</b> IP address of DNS server 1.</td></tr><tr><td>DNS Server 2</td><td>&lt;Current DNS Server 2 address of Aastra CNX&gt;</td><td><b>Description:</b> IP address of DNS server 2.</td></tr><tr><td>Management Interface</td><td>ETHERNET INTERFACE 1</td><td>ETHERNET INTERFACE 1 ETHERNET INTERFACE 2 BOTH  <b>Description:</b> Determines which IP network can access the Aastra CNX for managed functions.</td></tr><tr><td>FTP</td><td>ENABLE</td><td>ENABLE DISABLE  <b>Description:</b> Specifies whether or not File Transfer Protocol (FTP) is enabled or disabled on the Aastra CNX.</td></tr></table>	Attribute	Default	Valid Values/Description	IP Address 1	<Current IP address of the Aastra CNX>	<b>Description:</b> IP address for Ethernet 1, as initially configured from the console.	Netmask 1	<Current netmask address of the Aastra CNX>	<b>Description:</b> Netmask address for Ethernet 1.	IP Address 2	0.0.0.0	<b>Description:</b> IP address of a second Ethernet port.	Netmask 2	0.0.0.0	<b>Description:</b> Netmask address of a second Ethernet port.	Default Gateway	<Current default gateway of the Aastra CNX>	<b>Description:</b> Default gateway IP address.	Hostname	<Current hostname of the Aastra CNX>	<b>Description:</b> Hostname of the Aastra CNX.	Domain	<Current domain name of the Aastra CNX>	<b>Description:</b> Domain name of the Aastra CNX.	DNS Server 1	<Current DNS Server 1 address of Aastra CNX>	<b>Description:</b> IP address of DNS server 1.	DNS Server 2	<Current DNS Server 2 address of Aastra CNX>	<b>Description:</b> IP address of DNS server 2.	Management Interface	ETHERNET INTERFACE 1	ETHERNET INTERFACE 1 ETHERNET INTERFACE 2 BOTH  <b>Description:</b> Determines which IP network can access the Aastra CNX for managed functions.	FTP	ENABLE	ENABLE DISABLE  <b>Description:</b> Specifies whether or not File Transfer Protocol (FTP) is enabled or disabled on the Aastra CNX.
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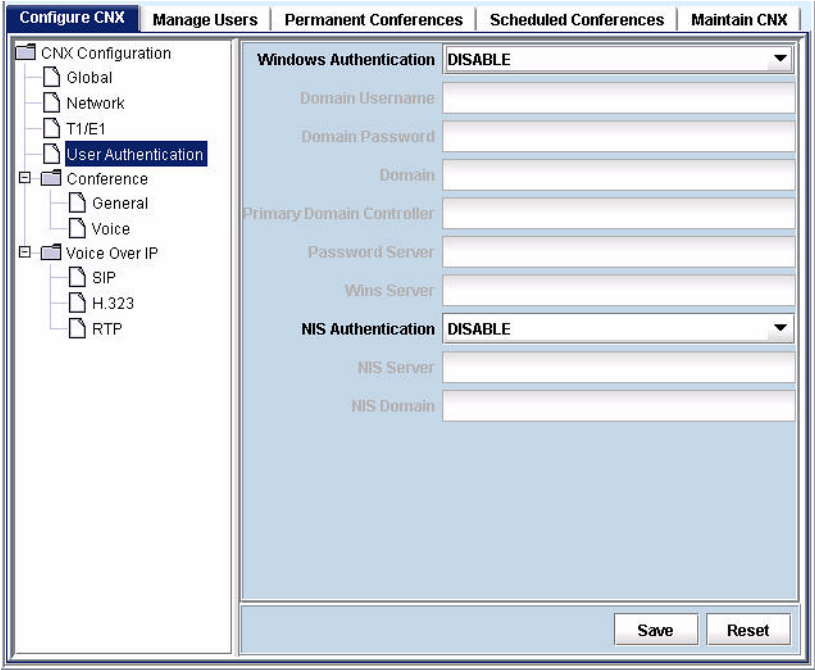
Step	Action															
7 (cont'd)	<p><i>Network configuration attributes continued</i></p> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>NTP Server 1</td><td>&lt;Current NTP Server 1 address of Aastra CNX&gt;</td><td><b>Description:</b> IP address of NTP server 1.</td></tr><tr><td>NTP Server 2</td><td>&lt;Current NTP Server 2 address of Aastra CNX&gt;</td><td><b>Description:</b> IP address of NTP server 2.</td></tr><tr><td>NTP Server 3</td><td>&lt;Current NTP Server 3 address of Aastra CNX&gt;</td><td><b>Description:</b> IP address of NTP server 3.</td></tr><tr><td>NTP Server 4</td><td>&lt;Current NTP Server 4 address of Aastra CNX&gt;</td><td><b>Description:</b> IP address of NTP server 4.</td></tr></table> <p><b>Note:</b> You can enter up to four NTP servers in your network, and press &lt;Enter&gt;. For example:</p> <p>NTP Server #1: [pool.ntp.org]: 192.167.2.11 ↵ NTP Server #2: [pool.ntp.org]: 192.167.2.12 ↵ NTP Server #3: [pool.ntp.org]: 0.0.0.0 ↵ NTP Server #4: [pool.ntp.org]: 0.0.0.0 ↵</p> <p>You can enter up to four NTP servers. If you have less than four NTP servers, enter the IP address(es) for the NTP servers that you have, and then enter 0.0.0.0 for the remaining NTP entries.</p> <p>If you do not have your own NTP server, and the Aastra CNX has Internet connectivity, you may use the default server entry of pool.ntp.org.</p> <p>Aastra Telecom <b>strongly recommends</b> the use of NTP servers, either your own or the default servers. NTP servers avoid clock slippage and inconsistent conference start times on the Aastra CNX. However, you may completely disable the NTP server feature by setting the IP address of all four servers to 0.0.0.0.</p>	Attribute	Default	Valid Values/Description	NTP Server 1	<Current NTP Server 1 address of Aastra CNX>	<b>Description:</b> IP address of NTP server 1.	NTP Server 2	<Current NTP Server 2 address of Aastra CNX>	<b>Description:</b> IP address of NTP server 2.	NTP Server 3	<Current NTP Server 3 address of Aastra CNX>	<b>Description:</b> IP address of NTP server 3.	NTP Server 4	<Current NTP Server 4 address of Aastra CNX>	<b>Description:</b> IP address of NTP server 4.
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NTP Server 3	<Current NTP Server 3 address of Aastra CNX>	<b>Description:</b> IP address of NTP server 3.														
NTP Server 4	<Current NTP Server 4 address of Aastra CNX>	<b>Description:</b> IP address of NTP server 4.														
8	Click  to save the configuration to the Aastra CNX and to the CompactFlash card.															

Step	Action
<b>T1/E1 Configuration</b>	
9	<p>Under the <b>CNX Configuration</b> object, click “<b>T1/E1</b>”.</p> <p><b>Result:</b> The Aastra CNX T1/E1 attribute fields display.</p> 


Step	Action		
10	Configure the attributes as required.		
	Attribute	Default	Valid Values/Description
	Framing Type	T1 FRAMING	T1 FRAMING E1 FRAMING
	Clocking	PORT 1 CLOCK	INTERNAL CLOCK PORT 1 CLOCK PORT 2 CLOCK PORT 3CLOCK PORT 4CLOCK  INTERNAL CLOCK - Uses the internal Aastra CNX clock for synchronization on TDM links.  PORT 1 thru PORT 4 CLOCK - Uses the external clocking on port 1 thru port 4, respectively, for synchronization on TDM links.
	Switch Type	<b>For T1 Framing:</b> DMS 100  <b>For E1 Framing:</b> ETSI	<b>For T1 Framing:</b> DMS 100 5ESS NI2 FXO Loop Start FXO Ground Start FXS Loop Start FXS Ground Start E&M  <b>For E1 Framing:</b> ETSI  <b>Description:</b> Specifies the switch type for the ISDN PRI connection.  <b>Descriptions of T1 Switch Types:</b> <b>DMS 100</b> - Northern Telecom Inc. DMS-100 <b>5ESS</b> - Lucent 5ESS <b>NI2</b> - North American National ISDN 2 (NI2)-compliant switch

Step	Action		
10 (cont'd)	<i>T1/E1 attributes continued.</i>		
	<b>Attribute</b>	<b>Default</b>	<b>Valid Values/Description</b>
	Switch Type ( <i>continued</i> )	<b>For T1 Framing:</b> DMS 100  <b>For E1 Framing:</b> ETSI	<u>Descriptions of T1 Switch Types (<i>continued</i>):</u> The following options are methods that enable Robbed Bit Signaling (RBS) on the CNX:  <b>FXO Loop Start</b> - Foreign exchange office loop start signaling. <b>FXO Ground Start</b> - Foreign exchange office ground start signaling. <b>FXS Loop Start</b> - Foreign exchange subscriber loop start signaling. <b>FXS Ground Start</b> - Foreign exchange subscriber ground start signaling. <b>E &amp; M</b> - Ear & mouth signaling  <u>Descriptions of E1 Switch Types:</u> <b>ETSI</b> - Specifies the European Telecommunications Standards Institute (ETSI) switch; reflects the latest revision (TBR4).
	Direction	USER SIDE	USER SIDE NETWORK SIDE  <b>Description:</b> Specifies the location of the T1 ISDN PRI connection.
	Line Coding	<b>For T1 Framing:</b> AMI  <b>For E1 Framing:</b> HDB3	<b>For T1 Framing:</b> AMI B8ZS  <b>For E1 Framing:</b> HDB3
	Line Framing	<b>For T1 Framing:</b> ESF  <b>For E1 Framing:</b> CCS	<b>For T1 Framing:</b> ESF SF  <b>For E1 Framing:</b> CCS
	Loopback	DISABLE	DISABLE LOCAL REMOTE

Step	Action																											
10 (cont'd)	<div>T1/E1 attributes continued.</div> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>Line Buildout</td><td><b>For T1 Framing:</b> 0 to 110 ft.(DSX-1)  <b>For E1 Framing:</b> 120 Ohms</td><td><b>For T1 Framing:</b> Short-haul values: 0 to 110 ft.(DSX-1) 110 to 220 ft. (DSX-1) 220 to 330 ft. (DSX-1) 330 to 440 ft. (DSX-1) 440 to 550 ft. (DSX-1) 550 to 660 ft. (DSX-1)  Long-haul values: 0 dB (long haul) -7.5 dB (long haul) -15 dB (long haul) -22.5 dB (long haul)  <b>For E1 Framing:</b> 120 Ohms</td></tr><tr><td>CRC  <b>Note:</b> Applies to E1 Framing only.</td><td>ENABLE</td><td>ENABLE DISABLE</td></tr><tr><td>Overlap  <b>Note:</b> Applies to E1 Framing only.</td><td>DISABLE</td><td>ENABLE DISABLE</td></tr><tr><td>Number of digits  <b>Note:</b> Applies to T1 RBS or E1 PRI only.</td><td>0</td><td>0 to 10  <b>Description:</b> Sets the number of digits to wait before starting the PIN collection announcement. This field is enabled only if the Switch Type is set to an RBS value for T1 or PRI ETSI for E1.</td></tr><tr><td>Port 1</td><td>ENABLE</td><td>ENABLE DISABLE</td></tr><tr><td>Port 2</td><td>DISABLE</td><td>ENABLE DISABLE</td></tr><tr><td>Port 3</td><td>DISABLE</td><td>ENABLE DISABLE</td></tr><tr><td>Port 4</td><td>DISABLE</td><td>ENABLE DISABLE</td></tr></table>	Attribute	Default	Valid Values/Description	Line Buildout	<b>For T1 Framing:</b> 0 to 110 ft.(DSX-1)  <b>For E1 Framing:</b> 120 Ohms	<b>For T1 Framing:</b> Short-haul values: 0 to 110 ft.(DSX-1) 110 to 220 ft. (DSX-1) 220 to 330 ft. (DSX-1) 330 to 440 ft. (DSX-1) 440 to 550 ft. (DSX-1) 550 to 660 ft. (DSX-1)  Long-haul values: 0 dB (long haul) -7.5 dB (long haul) -15 dB (long haul) -22.5 dB (long haul)  <b>For E1 Framing:</b> 120 Ohms	CRC  <b>Note:</b> Applies to E1 Framing only.	ENABLE	ENABLE DISABLE	Overlap  <b>Note:</b> Applies to E1 Framing only.	DISABLE	ENABLE DISABLE	Number of digits  <b>Note:</b> Applies to T1 RBS or E1 PRI only.	0	0 to 10  <b>Description:</b> Sets the number of digits to wait before starting the PIN collection announcement. This field is enabled only if the Switch Type is set to an RBS value for T1 or PRI ETSI for E1.	Port 1	ENABLE	ENABLE DISABLE	Port 2	DISABLE	ENABLE DISABLE	Port 3	DISABLE	ENABLE DISABLE	Port 4	DISABLE	ENABLE DISABLE
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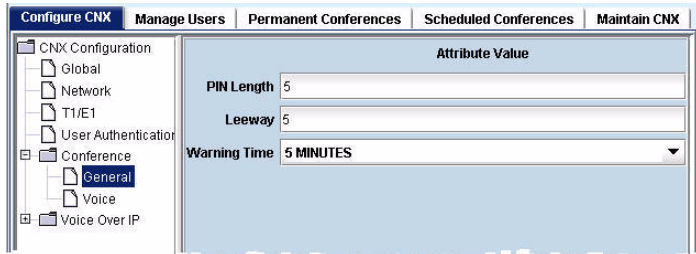
Step	Action
<b>User Authentication Configuration</b>	
12	<p>Under the <b>CNX Configuration</b> object, click <b>"User Authentication"</b>.</p> <p><b>Result:</b> The Aastra CNX User Authentication attribute fields display.</p> <p><b>Note:</b> Users may be authenticated against a secure local database stored on the Aastra CNX, or against an external server. The Aastra CNX first tries the local database, then the Network Information Service (NIS), then Windows. System administrators must be authenticated locally on the Aastra CNX.</p> 


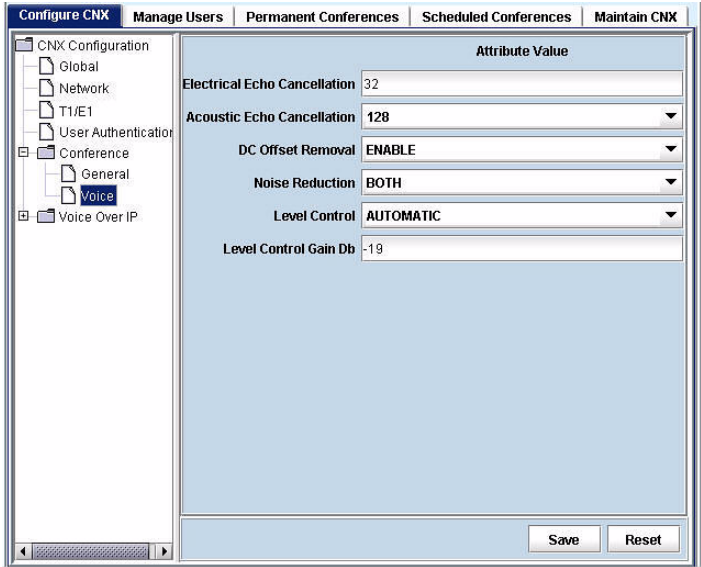
Step	Action																								
13	<div>Configure the attributes as required.</div> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>Windows Authentication</td><td>DISABLE</td><td>ENABLE DISABLE <b>Description:</b> Specifies whether or not to authenticate a user against a Windows server.</td></tr><tr><td>Domain Username</td><td>None</td><td><b>Description:</b> Specifies the username of a Windows domain administrator. <b>Note:</b> This is used once to register the Aastra CNX with the Windows domain.</td></tr><tr><td>Domain Password</td><td>None</td><td><b>Description:</b> Specifies the password of a Windows domain administrator. <b>Note:</b> This is used once to register the Aastra CNX with the Windows domain.</td></tr><tr><td>Domain</td><td>None</td><td><b>Description:</b> Specifies the Windows domain that the Aastra CNX uses. This is the default domain for users who do not specify a domain and for users who do not have accounts on the Aastra CNX.</td></tr><tr><td>Primary Domain Controller</td><td>0.0.0.0</td><td><b>Description:</b> Specifies the hostname or IP address of the server that the Aastra CNX uses to join the domain. <b>Note:</b> The Primary Domain Controller (PDC) is considered the “master” DC on the network for a particular workgroup/domain.</td></tr><tr><td>Password Server</td><td>0.0.0.0</td><td><b>Description:</b> Specifies the hostname or IP address of the server that the Aastra CNX uses to authenticate users. <b>Note:</b> In most cases, this is also the PDC or a Backup Domain Controller (BDC).</td></tr><tr><td>Wins Server</td><td>0.0.0.0</td><td><b>Description:</b> Specifies the hostname or IP address of the server that the Aastra CNX uses to resolve Windows names. <b>Note:</b> WINS is a Microsoft Windows NT or Windows 2000 service that dynamically registers names of computers on the network. In most cases, the WINS server is the PDC or BDC.</td></tr></table>	Attribute	Default	Valid Values/Description	Windows Authentication	DISABLE	ENABLE DISABLE <b>Description:</b> Specifies whether or not to authenticate a user against a Windows server.	Domain Username	None	<b>Description:</b> Specifies the username of a Windows domain administrator. <b>Note:</b> This is used once to register the Aastra CNX with the Windows domain.	Domain Password	None	<b>Description:</b> Specifies the password of a Windows domain administrator. <b>Note:</b> This is used once to register the Aastra CNX with the Windows domain.	Domain	None	<b>Description:</b> Specifies the Windows domain that the Aastra CNX uses. This is the default domain for users who do not specify a domain and for users who do not have accounts on the Aastra CNX.	Primary Domain Controller	0.0.0.0	<b>Description:</b> Specifies the hostname or IP address of the server that the Aastra CNX uses to join the domain. <b>Note:</b> The Primary Domain Controller (PDC) is considered the “master” DC on the network for a particular workgroup/domain.	Password Server	0.0.0.0	<b>Description:</b> Specifies the hostname or IP address of the server that the Aastra CNX uses to authenticate users. <b>Note:</b> In most cases, this is also the PDC or a Backup Domain Controller (BDC).	Wins Server	0.0.0.0	<b>Description:</b> Specifies the hostname or IP address of the server that the Aastra CNX uses to resolve Windows names. <b>Note:</b> WINS is a Microsoft Windows NT or Windows 2000 service that dynamically registers names of computers on the network. In most cases, the WINS server is the PDC or BDC.
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Primary Domain Controller	0.0.0.0	<b>Description:</b> Specifies the hostname or IP address of the server that the Aastra CNX uses to join the domain. <b>Note:</b> The Primary Domain Controller (PDC) is considered the “master” DC on the network for a particular workgroup/domain.																							
Password Server	0.0.0.0	<b>Description:</b> Specifies the hostname or IP address of the server that the Aastra CNX uses to authenticate users. <b>Note:</b> In most cases, this is also the PDC or a Backup Domain Controller (BDC).																							
Wins Server	0.0.0.0	<b>Description:</b> Specifies the hostname or IP address of the server that the Aastra CNX uses to resolve Windows names. <b>Note:</b> WINS is a Microsoft Windows NT or Windows 2000 service that dynamically registers names of computers on the network. In most cases, the WINS server is the PDC or BDC.																							


Step	Action												
13 (cont'd)	<p><i>User Authentication attributes continued.</i></p> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>NIS Authentication</td><td>DISABLE</td><td>DISABLE SERVER BROADCAST  <b>Description:</b> Specifies the method for which the Aastra CNX enables or disables Network Information System (NIS).  DISABLE - Disables NIS  SERVER - Uses a specific server for authentication with an optional NIS domain.  BROADCAST - Broadcast on the network for the specified NIS domain.</td></tr><tr><td>NIS Server</td><td>0.0.0.0</td><td><b>Description:</b> Specifies the hostname or IP address that the Aastra CNX uses for NIS authentication.</td></tr><tr><td>NIS Domain</td><td>0.0.0.0</td><td><b>Description:</b> Specifies the NIS domain that the Aastra CNX uses.</td></tr></table>	Attribute	Default	Valid Values/Description	NIS Authentication	DISABLE	DISABLE SERVER BROADCAST  <b>Description:</b> Specifies the method for which the Aastra CNX enables or disables Network Information System (NIS).  DISABLE - Disables NIS  SERVER - Uses a specific server for authentication with an optional NIS domain.  BROADCAST - Broadcast on the network for the specified NIS domain.	NIS Server	0.0.0.0	<b>Description:</b> Specifies the hostname or IP address that the Aastra CNX uses for NIS authentication.	NIS Domain	0.0.0.0	<b>Description:</b> Specifies the NIS domain that the Aastra CNX uses.
Attribute	Default	Valid Values/Description											
NIS Authentication	DISABLE	DISABLE SERVER BROADCAST  <b>Description:</b> Specifies the method for which the Aastra CNX enables or disables Network Information System (NIS).  DISABLE - Disables NIS  SERVER - Uses a specific server for authentication with an optional NIS domain.  BROADCAST - Broadcast on the network for the specified NIS domain.											
NIS Server	0.0.0.0	<b>Description:</b> Specifies the hostname or IP address that the Aastra CNX uses for NIS authentication.											
NIS Domain	0.0.0.0	<b>Description:</b> Specifies the NIS domain that the Aastra CNX uses.											
14	Click  to save the configuration to the Aastra CNX and to the CompactFlash card.												

## Conference configuration

Use the following procedure to configure the conference specifications for your Aastra CNX.

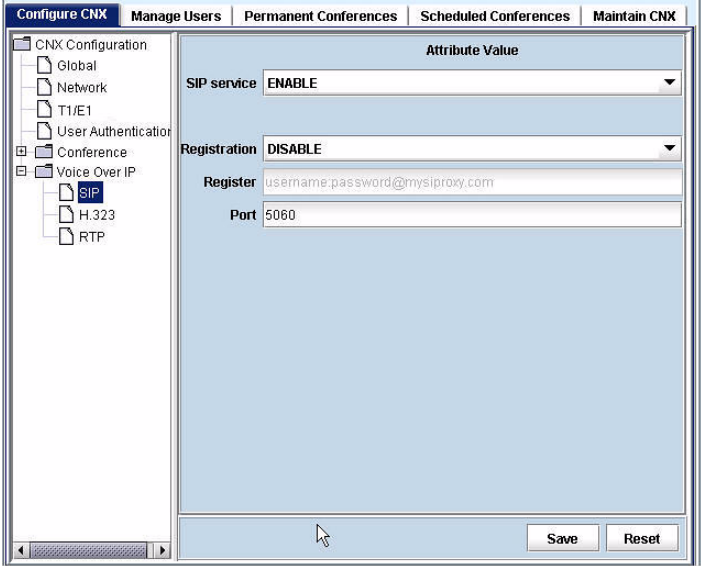
Step	Action												
1	While logged into the Aastra CNX, click the <b>Configure CNX</b> tab.												
2	Double-click the <b>Conference</b> object to expand the conference folder.												
<b>Conference/General</b>													
3	<p>Under the <b>Conference</b> object, click “<b>General</b>”.</p> <p><b>Result:</b> The general conference attributes display.</p> <div></div>												
4	<p>Configure the attributes as required.</p> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>Pin Length</td><td>5</td><td><b>Range:</b> 3 to 8  <b>Description:</b> Number of digits in the passcode used for the conference.</td></tr><tr><td>Leeway</td><td>5</td><td><b>Range:</b> 5 to 10  <b>Description:</b> Period of time, in minutes, when callers can access a conference before it starts.</td></tr><tr><td>Warning Time</td><td>5 MINUTES</td><td><b>Range:</b>5 MINUTES OFF  <b>Description:</b> Determines whether or not a warning message is played five minutes before the conference ends.</td></tr></table>	Attribute	Default	Valid Values/Description	Pin Length	5	<b>Range:</b> 3 to 8  <b>Description:</b> Number of digits in the passcode used for the conference.	Leeway	5	<b>Range:</b> 5 to 10  <b>Description:</b> Period of time, in minutes, when callers can access a conference before it starts.	Warning Time	5 MINUTES	<b>Range:</b> 5 MINUTES OFF  <b>Description:</b> Determines whether or not a warning message is played five minutes before the conference ends.
Attribute	Default	Valid Values/Description											
Pin Length	5	<b>Range:</b> 3 to 8  <b>Description:</b> Number of digits in the passcode used for the conference.											
Leeway	5	<b>Range:</b> 5 to 10  <b>Description:</b> Period of time, in minutes, when callers can access a conference before it starts.											
Warning Time	5 MINUTES	<b>Range:</b> 5 MINUTES OFF  <b>Description:</b> Determines whether or not a warning message is played five minutes before the conference ends.											


Step	Action
5	Click  to save the configuration to the Aastra CNX and to the CompactFlash card.
<b>Conference/Voice</b>	
6	<p>Under the <b>Conference</b> object, click <b>"Voice"</b>.</p> <p><b>Result:</b> The voice conference attributes display.</p>  <p><b>Note:</b> The conference voice settings are for advanced users <i>only</i>. You must be familiar with these voice concepts to change the settings. If you are not familiar with the voice attributes, <b>DO NOT</b> change the default settings.</p>

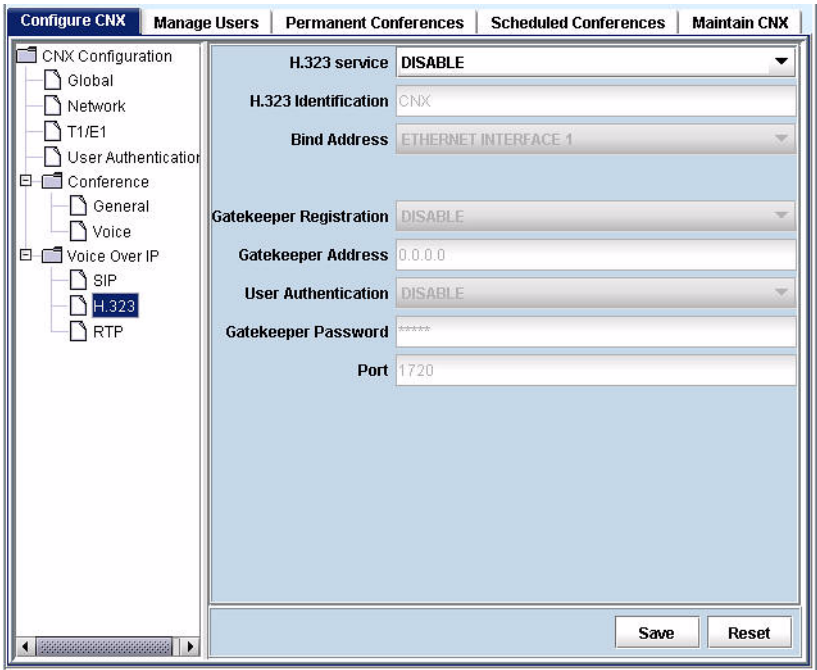
Step	Action																					
7	<div>Configure the attributes as required.</div> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>Electrical Echo Cancellation</td><td>32</td><td><b>Range:</b> 0 (disabled), 32 to 128 in increments of 4 ms  <b>Note:</b> The Aastra CNX echo canceller is G.168 (2002) compliant.</td></tr><tr><td>Acoustic Echo Cancellation</td><td>128</td><td><b>Range:</b> 0 (disabled), 128, 256, 512, or 1024 ms</td></tr><tr><td>DC Offset Removal</td><td>ENABLE</td><td>ENABLE DISABLE</td></tr><tr><td>Noise Reduction</td><td>BOTH</td><td>BOTH NONE ADAPTIVE CONFERENCE</td></tr><tr><td>Level Control</td><td>AUTOMATIC</td><td>AUTOMATIC MANUAL</td></tr><tr><td>Level Control Gain Db</td><td>-19</td><td><b>Automatic Level Control:</b> -40 to 0  <b>Manual Level Control:</b> -24 to 24</td></tr></table>	Attribute	Default	Valid Values/Description	Electrical Echo Cancellation	32	<b>Range:</b> 0 (disabled), 32 to 128 in increments of 4 ms  <b>Note:</b> The Aastra CNX echo canceller is G.168 (2002) compliant.	Acoustic Echo Cancellation	128	<b>Range:</b> 0 (disabled), 128, 256, 512, or 1024 ms	DC Offset Removal	ENABLE	ENABLE DISABLE	Noise Reduction	BOTH	BOTH NONE ADAPTIVE CONFERENCE	Level Control	AUTOMATIC	AUTOMATIC MANUAL	Level Control Gain Db	-19	<b>Automatic Level Control:</b> -40 to 0  <b>Manual Level Control:</b> -24 to 24
Attribute	Default	Valid Values/Description																				
Electrical Echo Cancellation	32	<b>Range:</b> 0 (disabled), 32 to 128 in increments of 4 ms  <b>Note:</b> The Aastra CNX echo canceller is G.168 (2002) compliant.																				
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Level Control	AUTOMATIC	AUTOMATIC MANUAL																				
Level Control Gain Db	-19	<b>Automatic Level Control:</b> -40 to 0  <b>Manual Level Control:</b> -24 to 24																				
8	Click  to save the configuration to the Aastra CNX and to the CompactFlash card.																					

## Voice over IP configuration


Use the following procedure to configure the voice over IP specifications for your Aastra CNX.

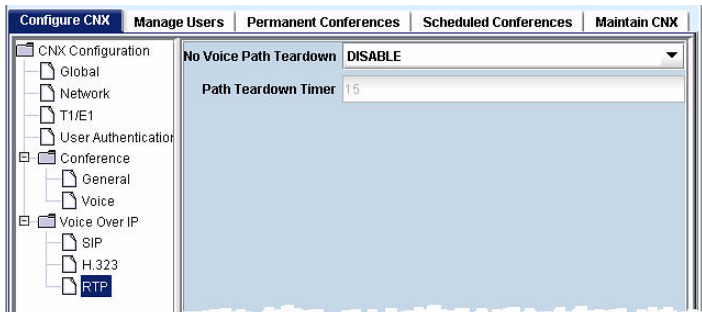

Step	Action
1	While logged into the Aastra CNX, click the <b>Configure CNX</b> tab.
<b>Voice over IP/SIP</b>	
2	<p>Under the <b>Voice over IP</b> object, click “<b>SIP</b>”.</p> <p><b>Result:</b> The SIP attributes display.</p> <p><b>Note:</b> <b>SIP service</b> and <b>Registration</b> is disabled by default. To enable Registration, you must enable SIP service first.</p> 

Step	Action															
3	<p>Configure the attributes as required.</p> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>SIP service</td><td>ENABLE</td><td>ENABLE DISABLE</td></tr><tr><td>Registration</td><td>DISABLE</td><td>ENABLE DISABLE</td></tr><tr><td>Register <b>Note:</b> Enabled only if Registration is set to ENABLE.</td><td>username:password @mysipproxy.com</td><td>Up to 80 integers or characters in the form <i>name@domain.com</i> where name is the authentication name of the Aastra CNX and the domain is the domain name (or IP address) of the SIP registration server.  <b>Note:</b> The “:password” in the default value is optional. It is required only if the authenticate field is set to <b>true</b>.</td></tr><tr><td>Port</td><td>5060</td><td>1,024 to 64,000</td></tr></table>	Attribute	Default	Valid Values/Description	SIP service	ENABLE	ENABLE DISABLE	Registration	DISABLE	ENABLE DISABLE	Register <b>Note:</b> Enabled only if Registration is set to ENABLE.	username:password @mysipproxy.com	Up to 80 integers or characters in the form <i>name@domain.com</i> where name is the authentication name of the Aastra CNX and the domain is the domain name (or IP address) of the SIP registration server.  <b>Note:</b> The “:password” in the default value is optional. It is required only if the authenticate field is set to <b>true</b> .	Port	5060	1,024 to 64,000
Attribute	Default	Valid Values/Description														
SIP service	ENABLE	ENABLE DISABLE														
Registration	DISABLE	ENABLE DISABLE														
Register <b>Note:</b> Enabled only if Registration is set to ENABLE.	username:password @mysipproxy.com	Up to 80 integers or characters in the form <i>name@domain.com</i> where name is the authentication name of the Aastra CNX and the domain is the domain name (or IP address) of the SIP registration server.  <b>Note:</b> The “:password” in the default value is optional. It is required only if the authenticate field is set to <b>true</b> .														
Port	5060	1,024 to 64,000														
4	Click  to save the configuration to the Aastra CNX and to the CompactFlash card.															

Step	Action
<b>Voice over IP/H.323</b>	
5	<p>Under the <b>Voice over IP</b> object, click “<b>H.323</b>”.</p> <p><b>Result:</b> The H.323 attributes display.</p> 

Step	Action															
6	<div>Configure the attributes as required.</div> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>H.323 service</td><td>DISABLE</td><td>ENABLE DISABLE  <b>Description:</b> Enables or disables the H.323 protocol on the Aastra CNX. H.323 is an international standard protocol for multimedia communication over packet-switched networks, including LANs, WANs, and the Internet.</td></tr><tr><td>H.323 Identification  <b>Note:</b> Enabled only if H.323 service is set to ENABLE.</td><td>CNX</td><td><b>Description:</b> The equipment that has H.323 enabled in the network.</td></tr><tr><td>Bind Address  <b>Note:</b> Enabled only if H.323 service is set to ENABLE.</td><td>ETHERNET INTERFACE 1</td><td>ETHERNET INTERFACE 1 ETHERNET INTERFACE 2  <b>Description:</b> Specifies the interface on the Aastra CNX that is being used to gain access to the H.323 gatekeeper.</td></tr><tr><td>Gatekeeper Registration  <b>Note:</b> Enabled only if H.323 service is set to ENABLE.</td><td>DISABLE</td><td>ENABLE DISABLE DISCOVER  <b>Description:</b> Enables or disables the Aastra CNX to locate the H.323 Gatekeeper. If set to DISCOVER, the Aastra CNX searches until it discovers the Gatekeeper when specifying by IP address or hostname.  <b>Note:</b> When using H.323, the Aastra CNX functions as a terminal appearing as a peer to H.323-based IP phones. You can configure the Aastra CNX to work with one or more H.323 gatekeepers.</td></tr></table>	Attribute	Default	Valid Values/Description	H.323 service	DISABLE	ENABLE DISABLE  <b>Description:</b> Enables or disables the H.323 protocol on the Aastra CNX. H.323 is an international standard protocol for multimedia communication over packet-switched networks, including LANs, WANs, and the Internet.	H.323 Identification  <b>Note:</b> Enabled only if H.323 service is set to ENABLE.	CNX	<b>Description:</b> The equipment that has H.323 enabled in the network.	Bind Address  <b>Note:</b> Enabled only if H.323 service is set to ENABLE.	ETHERNET INTERFACE 1	ETHERNET INTERFACE 1 ETHERNET INTERFACE 2  <b>Description:</b> Specifies the interface on the Aastra CNX that is being used to gain access to the H.323 gatekeeper.	Gatekeeper Registration  <b>Note:</b> Enabled only if H.323 service is set to ENABLE.	DISABLE	ENABLE DISABLE DISCOVER  <b>Description:</b> Enables or disables the Aastra CNX to locate the H.323 Gatekeeper. If set to DISCOVER, the Aastra CNX searches until it discovers the Gatekeeper when specifying by IP address or hostname.  <b>Note:</b> When using H.323, the Aastra CNX functions as a terminal appearing as a peer to H.323-based IP phones. You can configure the Aastra CNX to work with one or more H.323 gatekeepers.
Attribute	Default	Valid Values/Description														
H.323 service	DISABLE	ENABLE DISABLE  <b>Description:</b> Enables or disables the H.323 protocol on the Aastra CNX. H.323 is an international standard protocol for multimedia communication over packet-switched networks, including LANs, WANs, and the Internet.														
H.323 Identification  <b>Note:</b> Enabled only if H.323 service is set to ENABLE.	CNX	<b>Description:</b> The equipment that has H.323 enabled in the network.														
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Step	Action															
6 (cont'd)	<p><i>H.323 attributes continued.</i></p> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>Gatekeeper Address  <b>Note:</b> Enabled only if Gatekeeper Registration is set to ENABLE.</td><td>0.0.0.0</td><td><b>Description:</b> The IP address of the Gatekeeper in the network.</td></tr><tr><td>User Authentication  <b>Note:</b> Enabled only if Gatekeeper Registration is set to ENABLE.</td><td>DISABLE</td><td>ENABLE DISABLE  <b>Description:</b> Specifies whether or not authentication is enabled or disabled on the Aastra CNX. Authentication is the process of verifying whether a user is allowed access to the Aastra CNX using the H.323 protocol over a LAN, WAN, or over the Internet.</td></tr><tr><td>Gatekeeper Password  <b>Note:</b> Enabled only if User Authentication is set to ENABLE.</td><td>*****</td><td><b>Description:</b> Specifies the password that the Aastra CNX uses to gain access to the H.323 gatekeeper.</td></tr><tr><td>Port  <b>Note:</b> Enabled only if Gatekeeper Registration is set to ENABLE.</td><td>1720</td><td>1024 to 64000  <b>Description:</b> Specifies the User Datagram Protocol (UDP) port on the Aastra CNX that listens for and receives/processes H.323 messages.</td></tr></table>	Attribute	Default	Valid Values/Description	Gatekeeper Address  <b>Note:</b> Enabled only if Gatekeeper Registration is set to ENABLE.	0.0.0.0	<b>Description:</b> The IP address of the Gatekeeper in the network.	User Authentication  <b>Note:</b> Enabled only if Gatekeeper Registration is set to ENABLE.	DISABLE	ENABLE DISABLE  <b>Description:</b> Specifies whether or not authentication is enabled or disabled on the Aastra CNX. Authentication is the process of verifying whether a user is allowed access to the Aastra CNX using the H.323 protocol over a LAN, WAN, or over the Internet.	Gatekeeper Password  <b>Note:</b> Enabled only if User Authentication is set to ENABLE.	*****	<b>Description:</b> Specifies the password that the Aastra CNX uses to gain access to the H.323 gatekeeper.	Port  <b>Note:</b> Enabled only if Gatekeeper Registration is set to ENABLE.	1720	1024 to 64000  <b>Description:</b> Specifies the User Datagram Protocol (UDP) port on the Aastra CNX that listens for and receives/processes H.323 messages.
Attribute	Default	Valid Values/Description														
Gatekeeper Address  <b>Note:</b> Enabled only if Gatekeeper Registration is set to ENABLE.	0.0.0.0	<b>Description:</b> The IP address of the Gatekeeper in the network.														
User Authentication  <b>Note:</b> Enabled only if Gatekeeper Registration is set to ENABLE.	DISABLE	ENABLE DISABLE  <b>Description:</b> Specifies whether or not authentication is enabled or disabled on the Aastra CNX. Authentication is the process of verifying whether a user is allowed access to the Aastra CNX using the H.323 protocol over a LAN, WAN, or over the Internet.														
Gatekeeper Password  <b>Note:</b> Enabled only if User Authentication is set to ENABLE.	*****	<b>Description:</b> Specifies the password that the Aastra CNX uses to gain access to the H.323 gatekeeper.														
Port  <b>Note:</b> Enabled only if Gatekeeper Registration is set to ENABLE.	1720	1024 to 64000  <b>Description:</b> Specifies the User Datagram Protocol (UDP) port on the Aastra CNX that listens for and receives/processes H.323 messages.														
7	Click  to save the configuration to the Aastra CNX and to the CompactFlash card.															

Step	Action									
Voice over IP/RTP										
8	<p>Under the <b>Voice over IP</b> object, click “<b>RTP</b>”.</p> <p><b>Result:</b> The RTP attributes display.</p> 									
9	<p>Configure the attributes as required.</p> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>No Voice Path Teardown</td><td>DISABLE</td><td>ENABLE DISABLE  <b>Description:</b> Specifies whether or not the CNX uses no voice path teardown for Voice over IP.</td></tr><tr><td>Path Teardown Timer  <b>Note:</b> Enabled only if “No Voice Path Teardown” is set to ENABLE.</td><td>15</td><td>10 to 100  <b>Description:</b> Specifies the period of time, in seconds, that the Aastra CNX waits before automatically clearing a call if it receives no voice Real-Time Transport Control Protocol (RTCP) packets.</td></tr></table>	Attribute	Default	Valid Values/Description	No Voice Path Teardown	DISABLE	ENABLE DISABLE  <b>Description:</b> Specifies whether or not the CNX uses no voice path teardown for Voice over IP.	Path Teardown Timer  <b>Note:</b> Enabled only if “No Voice Path Teardown” is set to ENABLE.	15	10 to 100  <b>Description:</b> Specifies the period of time, in seconds, that the Aastra CNX waits before automatically clearing a call if it receives no voice Real-Time Transport Control Protocol (RTCP) packets.
Attribute	Default	Valid Values/Description								
No Voice Path Teardown	DISABLE	ENABLE DISABLE  <b>Description:</b> Specifies whether or not the CNX uses no voice path teardown for Voice over IP.								
Path Teardown Timer  <b>Note:</b> Enabled only if “No Voice Path Teardown” is set to ENABLE.	15	10 to 100  <b>Description:</b> Specifies the period of time, in seconds, that the Aastra CNX waits before automatically clearing a call if it receives no voice Real-Time Transport Control Protocol (RTCP) packets.								
10	<p>Click  to save the configuration to the Aastra CNX and to the CompactFlash card.</p>									



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# Chapter 4

## Managing the Aastra CNX

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### Managing users on the Aastra CNX

#### Description

A system administrator manages registered users and other system administrators on the Aastra CNX by accessing the **Manage Users** tab on the GUI main page.

The following illustration shows the Aastra CNX **Manage Users** tab in the Aastra CNX GUI with an existing user of “cnxadmin”.

**Aastra CNX Manage Users tab**

Left column  
displays  
existing users



## Procedures

This section provides procedures for creating, modifying, and deleting Aastra CNX registered users and system administrators.



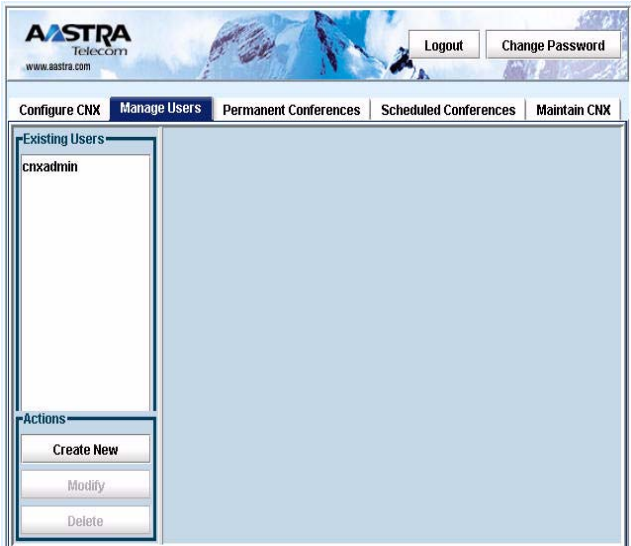
**Note:** You cannot modify or delete the “**cnxadmin**” System Administrator. If you logged in as “**cnxadmin**”, you can change your password using the


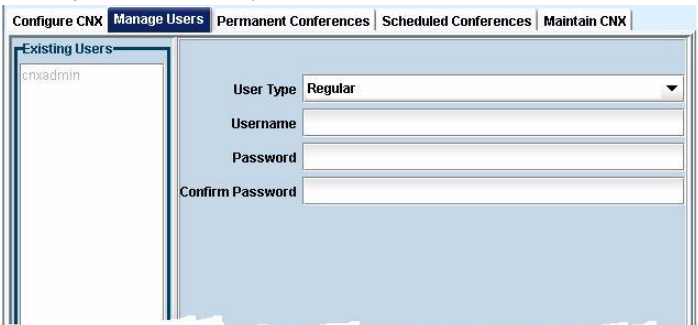

**Change Password** button.

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### Creating a registered user/system administrator

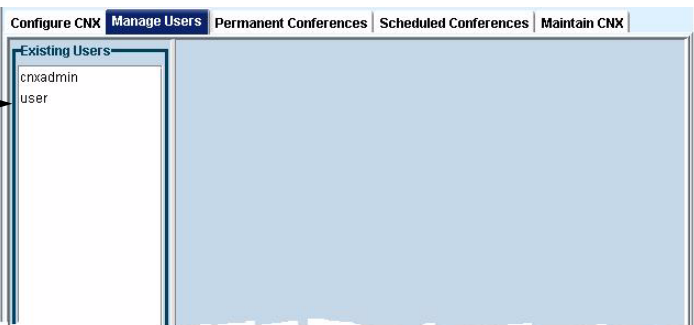

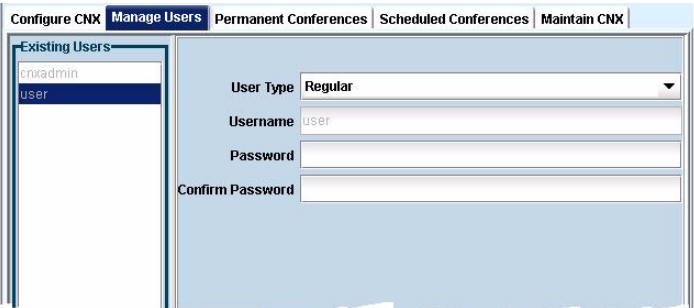
Use the following procedure to create a registered user and/or system administrator on the Aastra CNX.


Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	Click the <b>Manage Users</b> tab in the Aastra CNX main window. <div></div>

Step	Action															
3	<div>Click </div> <p><b>Result:</b> The user settings window displays.</p> 															
4	<p>Set the attributes as required.</p> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>User Type</td><td>Regular</td><td><p>Regular System Administrator</p><p><b>Description:</b> Specifies the type of user that has access to the Aastra CNX Web user interface.</p><p><b>Regular</b> - A Regular user has access to the Aastra CNX for managing scheduled conferences <i>only</i>. A Regular user can schedule, modify, and delete scheduled conferences. Regular users can only see and modify their own conferences.</p><p><b>System Administrator</b> - A System Administrator has full access to the Aastra CNX for configuring and managing the Aastra CNX hardware and software. A System Administrator can also create, modify, and delete regular user and system administrator profiles, and schedule, modify and delete conferences (permanent and scheduled).</p></td></tr><tr><td>User Name</td><td>-</td><td>3 to 20 lowercase alphanumeric characters</td></tr><tr><td>Password</td><td>-</td><td>5 to 20 alphanumeric characters</td></tr><tr><td>Confirm Password</td><td>None</td><td>5 to 20 alphanumeric characters</td></tr></table>	Attribute	Default	Valid Values/Description	User Type	Regular	<p>Regular System Administrator</p> <p><b>Description:</b> Specifies the type of user that has access to the Aastra CNX Web user interface.</p> <p><b>Regular</b> - A Regular user has access to the Aastra CNX for managing scheduled conferences <i>only</i>. A Regular user can schedule, modify, and delete scheduled conferences. Regular users can only see and modify their own conferences.</p> <p><b>System Administrator</b> - A System Administrator has full access to the Aastra CNX for configuring and managing the Aastra CNX hardware and software. A System Administrator can also create, modify, and delete regular user and system administrator profiles, and schedule, modify and delete conferences (permanent and scheduled).</p>	User Name	-	3 to 20 lowercase alphanumeric characters	Password	-	5 to 20 alphanumeric characters	Confirm Password	None	5 to 20 alphanumeric characters
Attribute	Default	Valid Values/Description														
User Type	Regular	<p>Regular System Administrator</p> <p><b>Description:</b> Specifies the type of user that has access to the Aastra CNX Web user interface.</p> <p><b>Regular</b> - A Regular user has access to the Aastra CNX for managing scheduled conferences <i>only</i>. A Regular user can schedule, modify, and delete scheduled conferences. Regular users can only see and modify their own conferences.</p> <p><b>System Administrator</b> - A System Administrator has full access to the Aastra CNX for configuring and managing the Aastra CNX hardware and software. A System Administrator can also create, modify, and delete regular user and system administrator profiles, and schedule, modify and delete conferences (permanent and scheduled).</p>														
User Name	-	3 to 20 lowercase alphanumeric characters														
Password	-	5 to 20 alphanumeric characters														
Confirm Password	None	5 to 20 alphanumeric characters														
5	<div>Click </div> to save the settings to the Aastra CNX secure database.															

## Modifying a registered user/system administrator

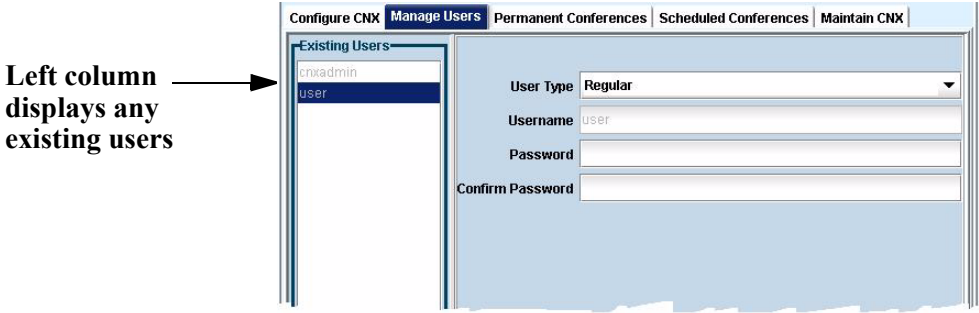


Use the following procedure to modify an existing registered user and/or system administrator on the Aastra CNX.

Step	Action
1	<p>While logged into the Aastra CNX, click the <b>Manage Users</b> tab.</p> <p><b>Result:</b> The following window displays. Existing users display in the left column.</p> 
2	<p>Click on a user you want to modify in the “<b>Existing Users</b>” column.</p>
3	<p>Select an existing user that you want to modify and click .</p> <p><b>Result:</b> A window displays with the current user settings for the user you selected. The following example shows the user settings for “user”.</p> 

Step	Action
4	<p>Modify the attributes as required.</p> <p><b>Note:</b> You can modify the password and confirm password fields only. Usernames cannot be modified.</p>
5	<p>Click  to save the settings to the Aastra CNX secure database.</p>

## Deleting a user/system administrator

Use the following procedure to delete an existing user and/or system administrator on the Aastra CNX.

Step	Action
1	<p>While logged into the Aastra CNX, click the <b>Manage Users</b> tab.</p> <p><b>Result:</b> The following window displays. Existing users display in the left column.</p> 
2	Click on a user you want to delete in the “ <b>Existing Users</b> ” box.
3	<p>Click .</p> <p><b>Result:</b> A prompt displays asking you to verify if you want to delete the selected user.</p>
4	<p>Click <b>YES</b> to delete the user you selected.</p> <p>or</p> <p>Click <b>NO</b> to cancel the delete action.</p>
5	<p>Click  to save the settings to the Aastra CNX secure database.</p>

# Managing conferences on the Aastra CNX

## Description

A system administrator manages conferences on the Aastra CNX by accessing the **Permanent Conferences** tab and/or the **Scheduled Conferences** tab on the GUI main page.

The following illustration shows the Aastra CNX **Permanent Conferences** and **Scheduled Conferences** tab in the Aastra CNX GUI with example conferences scheduled.

Permanent Conference List

Configure CNX

Manage Users

Permanent Conferences

Scheduled Conferences

Maintain CNX

Create New


Modify

Delete

Refresh

Conference Name	Ports	PIN	Mod. PIN	Owner
may4	10	31463	92211	cnxadmin
Conference 1	2	25407	65501	cnxadmin

Scheduled Conference List



Configure CNX   Manage Users   Permanent Conferences   Scheduled Conferences   Maintain CNX								
Schedule New			Modify		Delete			Refresh
Conference Name	Ports	PIN	Mod. PIN	Time	Duration	Recurring	Date	Owner
ConferenceA	5	65475	17968	2:30 ...	03:30 hrs		May 5, 2005	cnxadmin
ConferenceB	8	63034		2:30 ...	02:00 hrs		May 17, 2005	cnxadmin



**Note:** You can click on the column headings in the Permanent and Scheduled conference windows to sort the columns in ascending or descending order.

## Permanent Conference List

A Permanent Conference List displays for system administrator use *only*. These conferences are permanently available, and are also known as “reservationless” or “ad-hoc” conferences. You create permanent conferences with a guaranteed number of ports that are reserved for that particular conference. Additional participants may join the conference subject to availability of ports in the pool of ports reserved for permanent conferences.



**Note:** Moderated permanent conferences end when a moderator leaves the conference, and all participants are disconnected.

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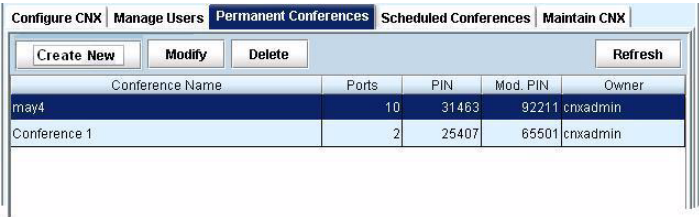

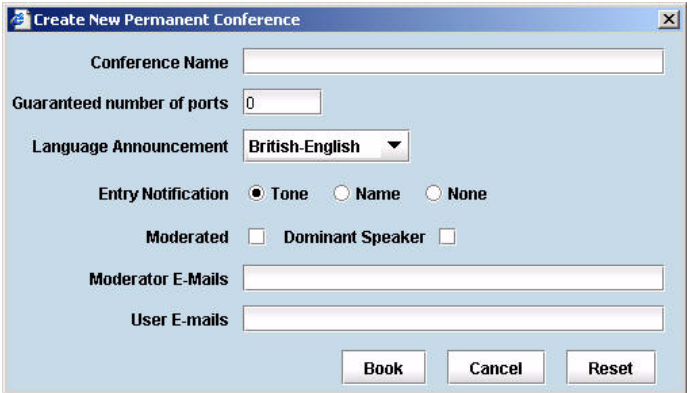
A system administrator can schedule new, modify, or delete permanent conferences from the list as required.

Booking a new permanent conference



















Use the following procedure to schedule a new permanent conference on the Aastra CNX.

→






**Note:** Dial-in services must be configured and enabled to create permanent conferences. Before creating a conference, you must configure ISDN PRI or Voice over IP. For configuring dial-in services, see [Chapter 3, “Configuring the Aastra CNX.”](#)

Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	Click the <b>Permanent Conferences</b> tab in the Aastra CNX main window. <div></div>
3	In the <b>Permanent Conference List</b> , click  . <b>Result:</b> The Create New Permanent Conference window displays. <div></div>

Step	Action															
4	Enter the information as required.															
	<table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>Conference Name</td><td>None</td><td>Up to 256 alphanumeric characters</td></tr><tr><td>Guaranteed Number of Ports</td><td>0</td><td>For 30-port Aastra CNX: 2 to 30  For 60-port Aastra CNX: 2 to 60  For 120-port Aastra CNX: 2 to 120</td></tr><tr><td>Language Announcement</td><td>English</td><td>English British-English French-Canadian Spanish  <b>Description:</b> Specifies the language to be used for conference announcements.</td></tr><tr><td>Entry Notification</td><td>Tone</td><td>Tone Name None  <b>Description:</b> Specifies whether the Aastra CNX uses tones, names, or nothing when a conference participant enters and exits from a conference.  <b>Notes:</b> 1. If you select <b>Names</b> for conference entry notification, the exit notification will be <b>Tone</b>.  2. When booking a conference with more than 10 participants, it is recommended that Entry Notification be set to <b>Tone</b> or <b>None</b>. Using <b>Name</b> notification with larger conferences may lead to delays in joining the conference and excessive interruptions when multiple participants join the conference.</td></tr></table>	Attribute	Default	Valid Values/Description	Conference Name	None	Up to 256 alphanumeric characters	Guaranteed Number of Ports	0	For 30-port Aastra CNX: 2 to 30  For 60-port Aastra CNX: 2 to 60  For 120-port Aastra CNX: 2 to 120	Language Announcement	English	English British-English French-Canadian Spanish  <b>Description:</b> Specifies the language to be used for conference announcements.	Entry Notification	Tone	Tone Name None  <b>Description:</b> Specifies whether the Aastra CNX uses tones, names, or nothing when a conference participant enters and exits from a conference.  <b>Notes:</b> 1. If you select <b>Names</b> for conference entry notification, the exit notification will be <b>Tone</b> .  2. When booking a conference with more than 10 participants, it is recommended that Entry Notification be set to <b>Tone</b> or <b>None</b> . Using <b>Name</b> notification with larger conferences may lead to delays in joining the conference and excessive interruptions when multiple participants join the conference.
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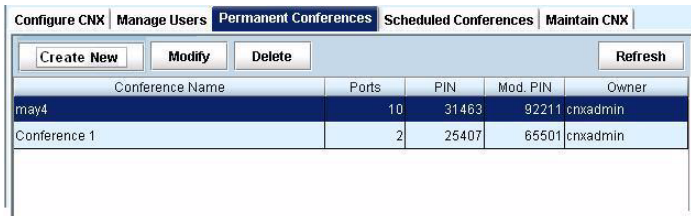

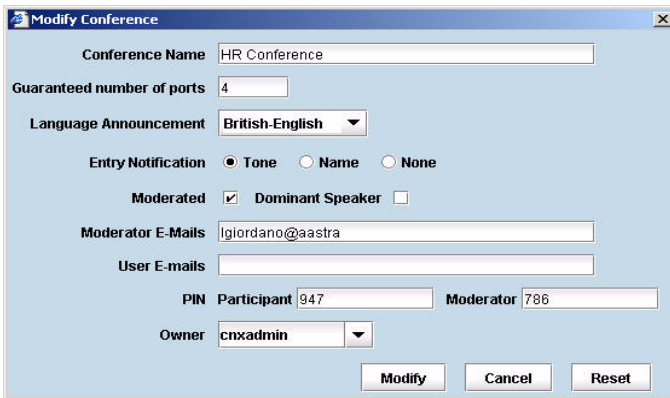
Step	Action															
4 (cont'd)	<p><i>Schedule new permanent conference window continued</i></p> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>Moderated</td><td>Not checked (disabled) </td><td>Not checked (disabled)  Checked (enabled)   <b>Description:</b> Specifies whether or not the conference has been assigned a moderator. A moderator is one who acts as a chairperson and has the authority to control the conference. If you enable this field, you may enter a moderator email address in the “<b>Moderator Email</b>” field.</td></tr><tr><td>Dominant Speaker (Applicable only if Moderated field is enabled.)</td><td>Not checked (disabled) </td><td>Not checked (disabled)  Checked (enabled)   <b>Description:</b> Allows a moderator to be the dominant speaker in a conference. If enabled, all other participants of the conference are attenuated by 15dB so that the moderator is the dominant voice. This feature is recommended for large conferences where the moderator acts as a chair-person.  <b>Note:</b> You must have the <a href="#">Noise Reduction</a> field enabled at <i>Configure CNX/Conference/Voice</i> if enabling Dominant Speaker.</td></tr><tr><td>Moderator E-Mails</td><td>None</td><td>Alphanumeric characters in the form <i>name@domain.com</i> where name is the email name of the moderator and the domain is the domain name of the email server. Multiple email addresses must be separated by a comma, space, or semicolon.</td></tr><tr><td>User E-Mails</td><td>None</td><td>Alphanumeric characters characters in the form <i>name@domain.com</i> where name is the email name of the user and the domain is the domain name of the email server. Multiple email addresses must be separated by a comma, space, or semicolon.  <b>Note:</b> User emails do not include the moderator PIN for a conference if it is moderated.</td></tr></table>	Attribute	Default	Valid Values/Description	Moderated	Not checked (disabled) 	Not checked (disabled)  Checked (enabled)   <b>Description:</b> Specifies whether or not the conference has been assigned a moderator. A moderator is one who acts as a chairperson and has the authority to control the conference. If you enable this field, you may enter a moderator email address in the “ <b>Moderator Email</b> ” field.	Dominant Speaker (Applicable only if Moderated field is enabled.)	Not checked (disabled) 	Not checked (disabled)  Checked (enabled)   <b>Description:</b> Allows a moderator to be the dominant speaker in a conference. If enabled, all other participants of the conference are attenuated by 15dB so that the moderator is the dominant voice. This feature is recommended for large conferences where the moderator acts as a chair-person.  <b>Note:</b> You must have the <a href="#">Noise Reduction</a> field enabled at <i>Configure CNX/Conference/Voice</i> if enabling Dominant Speaker.	Moderator E-Mails	None	Alphanumeric characters in the form <i>name@domain.com</i> where name is the email name of the moderator and the domain is the domain name of the email server. Multiple email addresses must be separated by a comma, space, or semicolon.	User E-Mails	None	Alphanumeric characters characters in the form <i>name@domain.com</i> where name is the email name of the user and the domain is the domain name of the email server. Multiple email addresses must be separated by a comma, space, or semicolon.  <b>Note:</b> User emails do not include the moderator PIN for a conference if it is moderated.
Attribute	Default	Valid Values/Description														
Moderated	Not checked (disabled) 	Not checked (disabled)  Checked (enabled)   <b>Description:</b> Specifies whether or not the conference has been assigned a moderator. A moderator is one who acts as a chairperson and has the authority to control the conference. If you enable this field, you may enter a moderator email address in the “ <b>Moderator Email</b> ” field.														
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User E-Mails	None	Alphanumeric characters characters in the form <i>name@domain.com</i> where name is the email name of the user and the domain is the domain name of the email server. Multiple email addresses must be separated by a comma, space, or semicolon.  <b>Note:</b> User emails do not include the moderator PIN for a conference if it is moderated.														


Step	Action												
4 (cont'd)	<i>Schedule new permanent conference window continued</i> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>PIN Participant  (Applicable only when modifying an existing permanent conference.)</td><td>&lt;participant passcode&gt;</td><td><b>Description:</b> Specifies the current participant passcode for the conference. (Up to 8 numeric characters)  <b>Note:</b> If you modify this passcode, you must notify the participants of the change in order for them to access the conference. This field is for system administrator use only. User's must contact the system administrator to request a passcode change.</td></tr><tr><td>Moderator  (Applicable only when modifying an existing permanent conference that has a moderator assigned.)</td><td>&lt;moderator passcode&gt;</td><td><b>Description:</b> Specifies the current moderator passcode for the conference. (Up to 8 numeric characters)  <b>Note:</b> If you modify this passcode, you must notify the moderators of the change in order for them to access the conference. This field is for system administrator use only. User's must contact the system administrator to request a passcode change.</td></tr><tr><td>Owner  (Applicable only when modifying an existing permanent conference.)</td><td>cnxadmin</td><td>cnxadmin Also lists all the users configured on the Aastra CNX.  <b>Description:</b> This field allows you to change the ownership of the permanent conference if required.</td></tr></table>	Attribute	Default	Valid Values/Description	PIN Participant  (Applicable only when modifying an existing permanent conference.)	<participant passcode>	<b>Description:</b> Specifies the current participant passcode for the conference. (Up to 8 numeric characters)  <b>Note:</b> If you modify this passcode, you must notify the participants of the change in order for them to access the conference. This field is for system administrator use only. User's must contact the system administrator to request a passcode change.	Moderator  (Applicable only when modifying an existing permanent conference that has a moderator assigned.)	<moderator passcode>	<b>Description:</b> Specifies the current moderator passcode for the conference. (Up to 8 numeric characters)  <b>Note:</b> If you modify this passcode, you must notify the moderators of the change in order for them to access the conference. This field is for system administrator use only. User's must contact the system administrator to request a passcode change.	Owner  (Applicable only when modifying an existing permanent conference.)	cnxadmin	cnxadmin Also lists all the users configured on the Aastra CNX.  <b>Description:</b> This field allows you to change the ownership of the permanent conference if required.
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Moderator  (Applicable only when modifying an existing permanent conference that has a moderator assigned.)	<moderator passcode>	<b>Description:</b> Specifies the current moderator passcode for the conference. (Up to 8 numeric characters)  <b>Note:</b> If you modify this passcode, you must notify the moderators of the change in order for them to access the conference. This field is for system administrator use only. User's must contact the system administrator to request a passcode change.											
Owner  (Applicable only when modifying an existing permanent conference.)	cnxadmin	cnxadmin Also lists all the users configured on the Aastra CNX.  <b>Description:</b> This field allows you to change the ownership of the permanent conference if required.											

Step	Action
5	<p>Click .</p> <p><b>Result:</b> If a Moderator was <i>not</i> selected for the conference, a message similar to the following displays:</p> <div><p>The conference phone number is 4477 The participant PIN code is 26845</p></div> <p>If a moderator was selected (enabled), a message similar to the following displays:</p> <div><p>The conference phone number is 4477 The participant PIN code is 99051 The moderator PIN code is 93418</p></div>
6	Click <b>OK</b> to save the conference to the Aastra CNX.

## Modifying a permanent conference

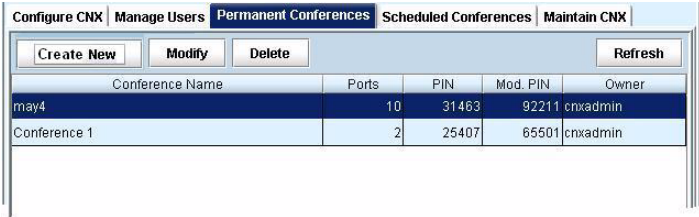


Use the following procedure to modify an existing permanent conference on the Aastra CNX.

Step	Action
1	<p>While logged into the Aastra CNX, click the <b>Permanent Conferences</b> tab.</p> <p><b>Result:</b> The following window displays. Existing conferences display in the Permanent Conference List.</p> 
2	Click on a permanent conference in the Permanent Conference List.
3	<p>Click .</p> <p><b>Result:</b> The Modify Conference window displays.</p>  <p><b>Note:</b> The Modify Conference window also allows you to change the Participant PIN, Moderator PIN, and/or Owner of the conference if required. See the table on <a href="#">page 4-10</a> for a description of each field in the Modify Permanent Conference window.</p>

Step	Action
4	<p>Modify the conference as required and click  .</p> <p><b>Result:</b> The Modify Complete window displays.</p> <p>Click <b>OK</b>.</p> <p>The conference displays in the Permanent Conference List with the new changes.</p>

### Deleting a permanent conference

Use the following procedure to delete an existing permanent conference on the Aastra CNX.

Step	Action
1	<p>While logged into the Aastra CNX, click the <b>Permanent Conferences</b> tab.</p> 
2	Click on a permanent conference in the Permanent Conference List.
3	<p>Click  .</p> <p><b>Result:</b> A prompt similar to the following displays for you to verify the delete action.</p> 
4	<p>Click <b>YES</b> to delete the permanent conference.</p> <p><b>or</b></p> <p>Click <b>NO</b> to cancel the delete action.</p>

## Scheduled Conference List

A Scheduled Conference List consists of temporary conferences that occur for a scheduled period with a start time and end time. Once the conference is complete, the scheduled conference no longer displays in the Scheduled Conference List and the port(s) that the conference was using are made available.




**Note:** Moderated scheduled conferences do not end when a moderator leaves the conference. Participants of a moderated scheduled conference can continue the conference without the moderator present.

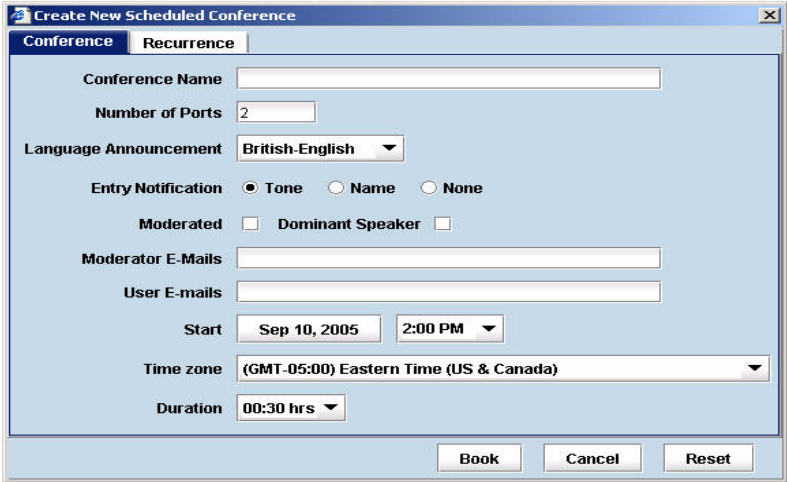
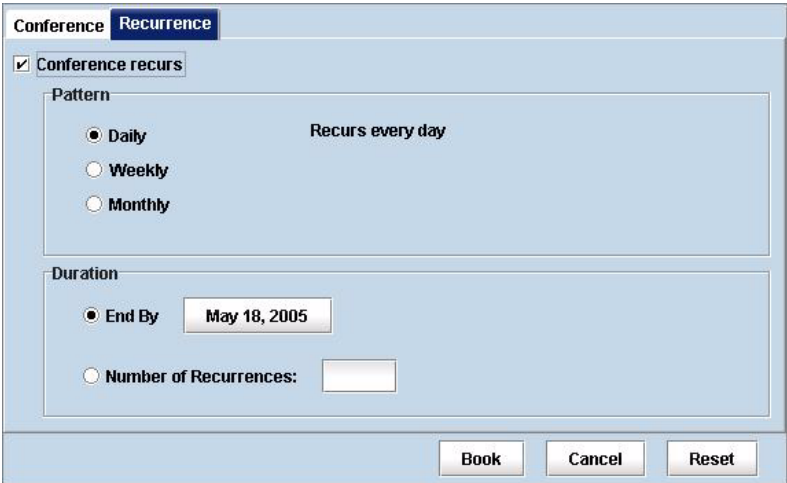
### Booking a new scheduled conference

Use the following procedure to book a new scheduled conference on the Aastra CNX.
























**Note:** Dial-in services must be configured and enabled to create scheduled conferences. Before creating a conference, you must configure ISDN PRI or Voice over IP. For configuring dial-in services, see [Chapter 3, “Configuring the Aastra CNX.”](#)










Step	Action																																					
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.																																					
2	Click the <b>Scheduled Conferences</b> tab in the Aastra CNX main window. <div><table><tr><td>Configure CNX</td><td>Manage Users</td><td>Permanent Conferences</td><td>Scheduled Conferences</td><td>Maintain CNX</td></tr><tr><td>Schedule New</td><td>Modify</td><td>Delete</td><td colspan="2">Refresh</td></tr><tr><td>Conference Name</td><td>Ports</td><td>PIN</td><td>Mod. PIN</td><td>Time</td><td>Duration</td><td>Recurring</td><td>Date</td><td>Owner</td></tr><tr><td>ConferenceA</td><td>5</td><td>65475</td><td>17968</td><td>2:30 ...</td><td>03:30 hrs</td><td></td><td>May 5, 2005</td><td>cnxadmin</td></tr><tr><td>ConferenceB</td><td>8</td><td>63034</td><td></td><td>2:30 ...</td><td>02:00 hrs</td><td></td><td>May 17, 2005</td><td>cnxadmin</td></tr></table></div>	Configure CNX	Manage Users	Permanent Conferences	Scheduled Conferences	Maintain CNX	Schedule New	Modify	Delete	Refresh		Conference Name	Ports	PIN	Mod. PIN	Time	Duration	Recurring	Date	Owner	ConferenceA	5	65475	17968	2:30 ...	03:30 hrs		May 5, 2005	cnxadmin	ConferenceB	8	63034		2:30 ...	02:00 hrs		May 17, 2005	cnxadmin
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Step	Action
3	<div><div>In the <b>Scheduled Conference List</b>, click <b>Schedule New</b>.</div><div><b>Result:</b> The Create New Scheduled Conference window displays.</div><div><p>The screenshot shows the 'Create New Scheduled Conference' window with the 'Conference' tab selected. The fields are as follows: Conference Name (empty), Number of Ports (2), Language Announcement (British-English), Entry Notification (Tone selected), Moderated (unchecked), Dominant Speaker (unchecked), Moderator E-Mails (empty), User E-mails (empty), Start (Sep 10, 2005, 2:00 PM), Time zone ((GMT-05:00) Eastern Time (US &amp; Canada)), and Duration (00:30 hrs). Buttons at the bottom are Book, Cancel, and Reset.</p></div><div><p>The screenshot shows the 'Create New Scheduled Conference' window with the 'Recurrence' tab selected. The 'Conference recurs' checkbox is checked. Under 'Pattern', 'Daily' is selected with the text 'Recurs every day'. Under 'Duration', 'End By' is selected with the date 'May 18, 2005'. The 'Number of Recurrences' option is also visible but not selected. Buttons at the bottom are Book, Cancel, and Reset.</p></div></div>





Step	Action															
Conference tab																
4	<p>Click on the Conference tab and enter the information as required; then click on the Recurrence tab to set the recurrence pattern.</p> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>Conference Name</td><td>None</td><td>Up to 256 alphanumeric characters</td></tr><tr><td>Number of Ports</td><td>2</td><td>For 30-port Aastra CNX: 2 to 30  For 60-port Aastra CNX: 2 to 60  For 120-port Aastra CNX: 2 to 120</td></tr><tr><td>Language Announcement</td><td>English</td><td>English British-English French-Canadian Spanish  <b>Description:</b> Specifies the language to be used for conference announcements.</td></tr><tr><td>Entry Notification</td><td>Tone</td><td>Tone Name None  <b>Description:</b> Specifies whether the Aastra CNX uses tones, names, or nothing when a conference participant enters and exits from a conference.  <b>Notes:</b> 1. If you select <b>Names</b> for conference entry notification, the exit notification will be <b>Tone</b>.  2. When booking a conference with more than 10 participants, it is recommended that Entry Notification be set to <b>Tone</b> or <b>None</b>. Using <b>Name</b> notification with larger conferences may lead to delays in joining the conference and excessive interruptions when multiple participants join the conference.</td></tr></table>	Attribute	Default	Valid Values/Description	Conference Name	None	Up to 256 alphanumeric characters	Number of Ports	2	For 30-port Aastra CNX: 2 to 30  For 60-port Aastra CNX: 2 to 60  For 120-port Aastra CNX: 2 to 120	Language Announcement	English	English British-English French-Canadian Spanish  <b>Description:</b> Specifies the language to be used for conference announcements.	Entry Notification	Tone	Tone Name None  <b>Description:</b> Specifies whether the Aastra CNX uses tones, names, or nothing when a conference participant enters and exits from a conference.  <b>Notes:</b> 1. If you select <b>Names</b> for conference entry notification, the exit notification will be <b>Tone</b> .  2. When booking a conference with more than 10 participants, it is recommended that Entry Notification be set to <b>Tone</b> or <b>None</b> . Using <b>Name</b> notification with larger conferences may lead to delays in joining the conference and excessive interruptions when multiple participants join the conference.
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Entry Notification	Tone	Tone Name None  <b>Description:</b> Specifies whether the Aastra CNX uses tones, names, or nothing when a conference participant enters and exits from a conference.  <b>Notes:</b> 1. If you select <b>Names</b> for conference entry notification, the exit notification will be <b>Tone</b> .  2. When booking a conference with more than 10 participants, it is recommended that Entry Notification be set to <b>Tone</b> or <b>None</b> . Using <b>Name</b> notification with larger conferences may lead to delays in joining the conference and excessive interruptions when multiple participants join the conference.														

Step	Action															
4 (cont'd)	<p><i>Schedule New Conference window continued.</i></p> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>Moderated</td><td>Not checked (disabled) </td><td>Not checked (disabled)  Checked (enabled)  <b>Description:</b> Specifies whether or not the conference has been assigned a moderator. A moderator is one who acts as a chairperson and has the authority to control the conference. If you enable this field, you may enter a moderator email address in the “<b>Moderator Email</b>” field.</td></tr><tr><td>Dominant Speaker (Applicable only if Moderated field is enabled.)</td><td>Not checked (disabled) </td><td>Not checked (disabled)  Checked (enabled)  <b>Description:</b> Allows a moderator to be the dominant speaker in a conference. If enabled, all other participants of the conference are attenuated by 15dB so that the moderator is the dominant voice. This feature is recommended for large conferences where the moderator acts as a chair-person.  <b>Note:</b> You must have the <a href="#">Noise Reduction</a> field enabled at <i>Configure CNX/Conference/Voice</i> if enabling Dominant Speaker.</td></tr><tr><td>Moderator E-Mails</td><td>None</td><td>Alphanumeric characters in the form <i>name@domain.com</i> where name is the email name of the moderator and the domain is the domain name of the email server. Multiple email addresses must be separated by a comma, space, or semicolon.</td></tr><tr><td>User E-Mails</td><td>None</td><td>Alphanumeric characters in the form <i>name@domain.com</i> where name is the email name of the user and the domain is the domain name of the email server. Multiple email addresses must be separated by a comma, space, or semicolon.  <b>Note:</b> User emails do not include the moderator PIN for a conference if it is moderated.</td></tr></table>	Attribute	Default	Valid Values/Description	Moderated	Not checked (disabled) 	Not checked (disabled)  Checked (enabled)  <b>Description:</b> Specifies whether or not the conference has been assigned a moderator. A moderator is one who acts as a chairperson and has the authority to control the conference. If you enable this field, you may enter a moderator email address in the “ <b>Moderator Email</b> ” field.	Dominant Speaker (Applicable only if Moderated field is enabled.)	Not checked (disabled) 	Not checked (disabled)  Checked (enabled)  <b>Description:</b> Allows a moderator to be the dominant speaker in a conference. If enabled, all other participants of the conference are attenuated by 15dB so that the moderator is the dominant voice. This feature is recommended for large conferences where the moderator acts as a chair-person.  <b>Note:</b> You must have the <a href="#">Noise Reduction</a> field enabled at <i>Configure CNX/Conference/Voice</i> if enabling Dominant Speaker.	Moderator E-Mails	None	Alphanumeric characters in the form <i>name@domain.com</i> where name is the email name of the moderator and the domain is the domain name of the email server. Multiple email addresses must be separated by a comma, space, or semicolon.	User E-Mails	None	Alphanumeric characters in the form <i>name@domain.com</i> where name is the email name of the user and the domain is the domain name of the email server. Multiple email addresses must be separated by a comma, space, or semicolon.  <b>Note:</b> User emails do not include the moderator PIN for a conference if it is moderated.
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Step	Action															
4 (cont'd)	<i>Schedule New Conference window continued.</i> <table><tr><th>Attribute</th><th>Default</th><th>Valid Values/Description</th></tr><tr><td>Start</td><td>&lt;Current PC Date and Time&gt;</td><td><p><b>Date:</b> Specifies the month, day, and year that the scheduled conference is to begin.</p><p><b>Time:</b> Specifies the time of day that the scheduled conference is to begin. (Values are 12:00 A.M. through 11:30 P.M.)</p></td></tr><tr><td>Timezone</td><td>GMT-05:00 Eastern Time (USA and Canada)</td><td><p><b>Description:</b> Specifies the timezone to use when scheduling a conference.</p></td></tr><tr><td>Duration</td><td>00:30 hrs</td><td><p><b>Description:</b> Duration of the conference. Valid values are in 30 minute increments from 00:30 hrs. to 23:30 hrs.</p></td></tr><tr><td>PIN Participant  (Applicable only when modifying an existing scheduled conference.)</td><td>&lt;participant passcode&gt;</td><td><p><b>Description:</b> Specifies the current participant passcode for the conference. (Up to 8 numeric characters)</p><p><b>Note:</b> If you modify this passcode, you must notify the participants of the change in order for them to access the conference. This field is for system administrator use only. User's must contact the system administrator to request a passcode change.</p></td></tr></table>	Attribute	Default	Valid Values/Description	Start	<Current PC Date and Time>	<p><b>Date:</b> Specifies the month, day, and year that the scheduled conference is to begin.</p>  <p><b>Time:</b> Specifies the time of day that the scheduled conference is to begin. (Values are 12:00 A.M. through 11:30 P.M.)</p>	Timezone	GMT-05:00 Eastern Time (USA and Canada)	<p><b>Description:</b> Specifies the timezone to use when scheduling a conference.</p>	Duration	00:30 hrs	<p><b>Description:</b> Duration of the conference. Valid values are in 30 minute increments from 00:30 hrs. to 23:30 hrs.</p>	PIN Participant  (Applicable only when modifying an existing scheduled conference.)	<participant passcode>	<p><b>Description:</b> Specifies the current participant passcode for the conference. (Up to 8 numeric characters)</p> <p><b>Note:</b> If you modify this passcode, you must notify the participants of the change in order for them to access the conference. This field is for system administrator use only. User's must contact the system administrator to request a passcode change.</p>
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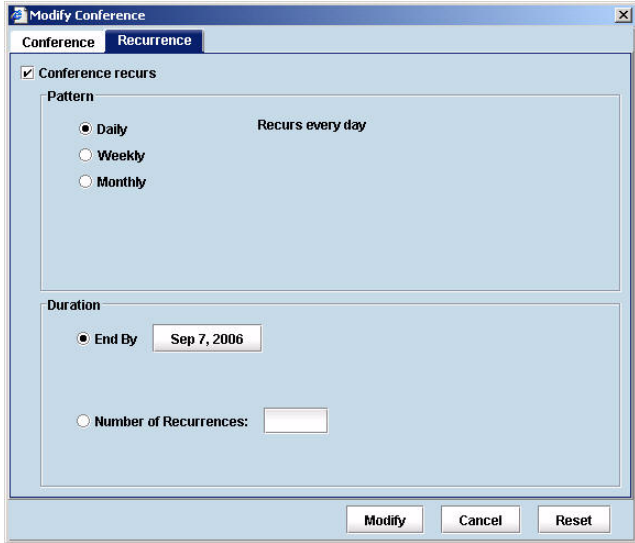
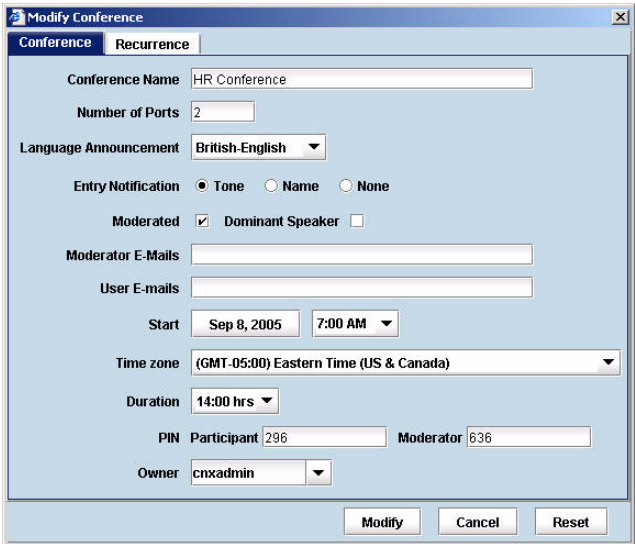
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6	<p>Click  .</p> <p><b>Result:</b> A verification window displays asking you to confirm that the information you entered for the scheduled conference is correct. The following is an example of the window that displays.</p> <div><div></div><div><p>The conference will occur every Wednesday effective from May 18, 2005 until May 25, 2005 at 12:00 AM to 12:30 AM EST/EDT (America/New_York)</p><div><div>Yes</div><div>No</div></div></div></div>																																																





Step	Action
7	<p>Click <b>YES</b> if the information you entered is correct. or Click <b>NO</b> to close the verification window and reenter correct information in the “Schedule New Conference” window.</p> <p><b>Result:</b> If you click <b>YES</b>, a confirmation window displays with the applicable passcode(s) used for the conference. If a Moderator was <i>not</i> selected for the conference, a Participant passcode displays in the confirmation window.</p> <div data-bbox="569 517 973 633">  <p>The conference phone number is 4477 The participant PIN code is 26845</p>  </div> <p>If a moderator was selected (enabled), the confirmation window displays the Participant PIN and the Moderator PIN.</p> <div data-bbox="569 782 973 911">  <p>The conference phone number is 4477 The participant PIN code is 99051 The moderator PIN code is 93418</p>  </div>
8	<p>Click <b>OK</b> to save the conference to the Aastra CNX.</p> <p><b>Result:</b> The conference and all of its attributes display in the Scheduled Conference List.</p>

## Modifying a scheduled conference

Use the following procedure to modify an existing scheduled conference on the Aastra CNX.




Step	Action																											
1	<p>While logged into the Aastra CNX, click the <b>Scheduled Conferences</b> tab.</p> <p>The following window displays. Existing conferences display in the Scheduled Conference List.</p> <div><div>Configure CNX   Manage Users   Permanent Conferences   <b>Scheduled Conferences</b>   Maintain CNX</div><div><div>Schedule New   Modify   Delete   Refresh</div><table><tr><th>Conference Name</th><th>Ports</th><th>PIN</th><th>Mod. PIN</th><th>Time</th><th>Duration</th><th>Recurring</th><th>Date</th><th>Owner</th></tr><tr><td>ConferenceA</td><td>5</td><td>65475</td><td>17968</td><td>2:30 ...</td><td>03:30 hrs</td><td></td><td>May 5, 2005</td><td>cnxadmin</td></tr><tr><td>ConferenceB</td><td>8</td><td>63034</td><td></td><td>2:30 ...</td><td>02:00 hrs</td><td></td><td>May 17, 2005</td><td>cnxadmin</td></tr></table></div></div>	Conference Name	Ports	PIN	Mod. PIN	Time	Duration	Recurring	Date	Owner	ConferenceA	5	65475	17968	2:30 ...	03:30 hrs		May 5, 2005	cnxadmin	ConferenceB	8	63034		2:30 ...	02:00 hrs		May 17, 2005	cnxadmin
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2	Click on a scheduled conference in the Scheduled Conference List.																											

Step	Action
3	<div><div>Click </div><div><b>Result:</b> The Modify Conference window displays with the information about the conference you selected.</div><div></div></div>

Step	Action
4	<p>Modify the conference and recurrence as required and click  .</p> <p><b>Note:</b> The Modify Conference window also allows you to change the Participant PIN, Moderator PIN and/or Owner of the conference if required. See the table on <a href="#">page 4-18</a> for a description of each field in the Modify Conference window.</p> <p><b>Result:</b> A verification window displays asking you to confirm that the information you entered for the scheduled conference is correct. The following is an example of the window that displays.</p> <div data-bbox="307 534 1232 661">  <p><b>The conference will occur every Wednesday effective from May 18, 2005 until May 25, 2005 at 12:00 AM to 12:30 AM EST/EDT (America/New_York)</b></p> <div data-bbox="692 616 842 661">   </div> </div>
5	<p>Click <b>YES</b> if the information you entered is correct. or Click <b>NO</b> to close the verification window and reenter correct information in the “Schedule New Conference” window.</p>
6	<p>Click <b>OK</b> to save the conference to the Aastra CNX. <b>Result:</b> The conference displays with the changes in the Scheduled Conference List.</p>

## Deleting a scheduled conference

Use the following procedure to delete an existing scheduled conference on the Aastra CNX.

Step	Action
1	<p>While logged into the Aastra CNX, click the <b>Scheduled Conferences</b> tab.</p> <p><b>Result:</b> The following window displays. Existing conferences display in the Scheduled Conference List.</p> 
2	Click on a scheduled conference in the Scheduled Conference List.
3	<p>Click .</p> <p><b>Result:</b> A prompt displays for you to verify the delete action.</p> 
4	<p>Click <b>YES</b> to delete the scheduled conference from the Aastra CNX and from the CompactFlash card.</p> <p><b>or</b></p> <p>Click <b>NO</b> to cancel the delete action.</p>



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# Chapter 5

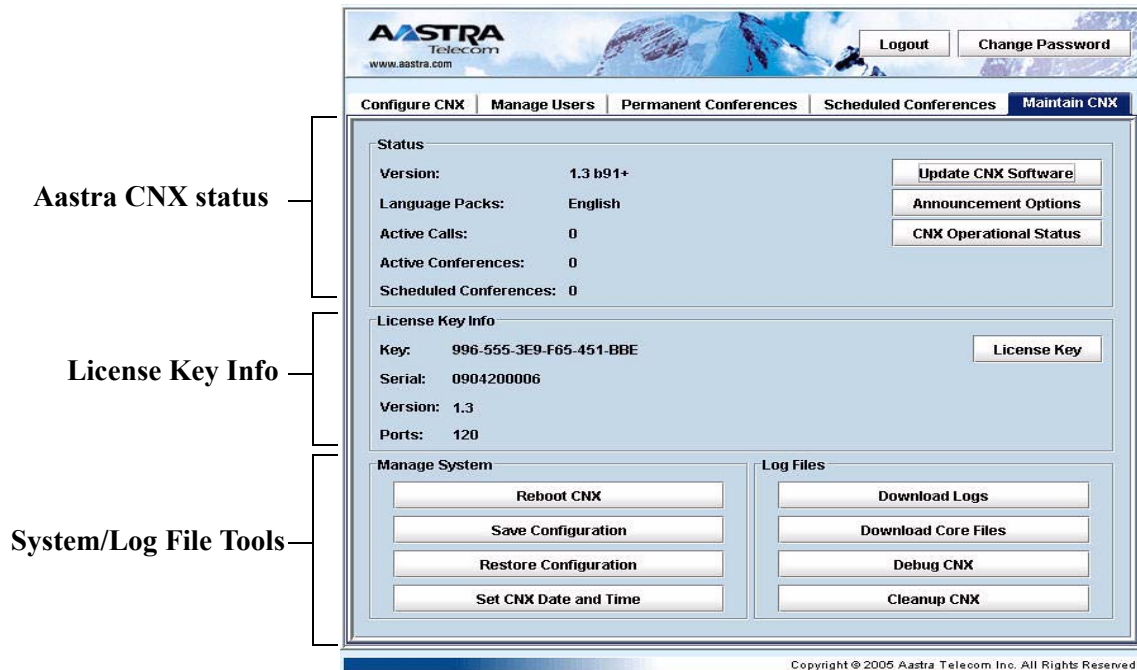
## Maintaining the Aastra CNX

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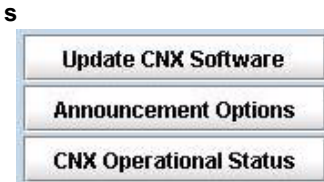

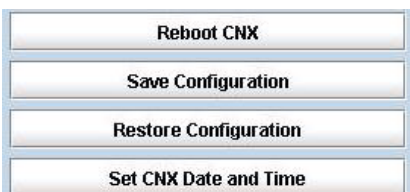
### Overview

### Description

You can maintain the Aastra CNX by accessing the **Maintain CNX** tab in the Graphical User Interface (GUI). The following illustration shows the **Maintain CNX** tab in the Aastra CNX GUI.



The following information can be found on the **Maintain CNX** tab:

Maintain CNX tab	Allows you to:
<p><b>Status</b></p> 	<p>Display current software version, language pack, number of active calls, number of active conferences, number of scheduled conferences</p> <ul style="list-style-type: none"> <li>- Update Aastra CNX software</li> <li>- Load or remove language packs and customized conference greetings</li> </ul> <p><b>Note:</b> The <b>CNX Operational Status</b> button is for Technical Support use <i>only</i> and is not described in this guide.</p>
<p><b>License Key Info</b></p> 	<p>Display key number, serial number, version, number of ports</p> <ul style="list-style-type: none"> <li>- Enter a new license key for updated software</li> </ul>
<p><b>Manage System</b></p> 	<p>Maintain system functionality</p> <ul style="list-style-type: none"> <li>- Reboot the Aastra CNX when required</li> <li>- Save an Aastra CNX configuration file to your PC</li> <li>- Restore a configuration file from your PC to the Aastra CNX</li> <li>- Set a date, clock time, and time zone on the Aastra CNX</li> </ul>

Maintain CNX tab	Allows you to:
<p><b>Log Files</b></p> <div><div>Download Logs</div><div>Download Core Files</div><div>Debug CNX</div><div>Cleanup CNX</div></div>	<p>Maintain log files, core files, and CompactFlash disk space, and perform troubleshooting functions</p> <ul style="list-style-type: none"><li>- Download Call Detail Records (CDRs)</li><li>- Cleanup unwanted files on the CompactFlash to maximize disk space capacity</li></ul> <p><b>Note:</b> The <b>Download Core Files</b> and <b>Debug CNX</b> buttons are for Technical Support use <i>only</i> and are not described in this guide. Also, the “<b>Support Logs</b>” tab in the <b>Download Logs</b> screen is for Technical Support use <i>only</i>.</p>

# Update CNX software

## Description

The **Update CNX Software** tool in the **Maintain CNX** window allows you to install software updates to the Aastra CNX.

The Aastra CNX software is packaged in a single file called “*cnx.dra*”. You can place the *cnx.dra* file on your PC and use the **Update CNX Software** button to install the update.

The *cnx.dra* file automatically updates the onboard CNX flash and the CompactFlash card.




## Procedure


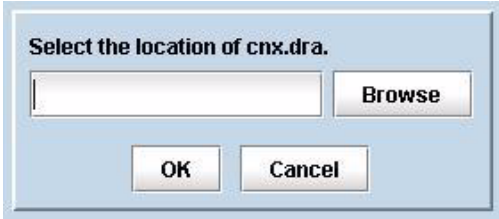

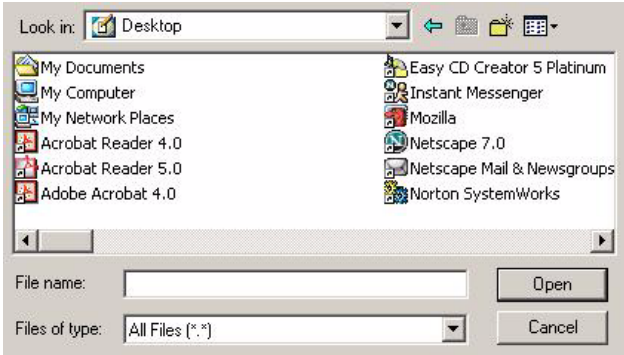
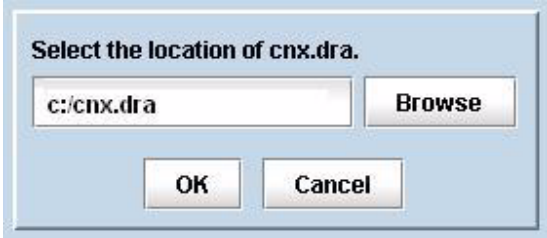
Use the following procedure to update your Aastra CNX software.


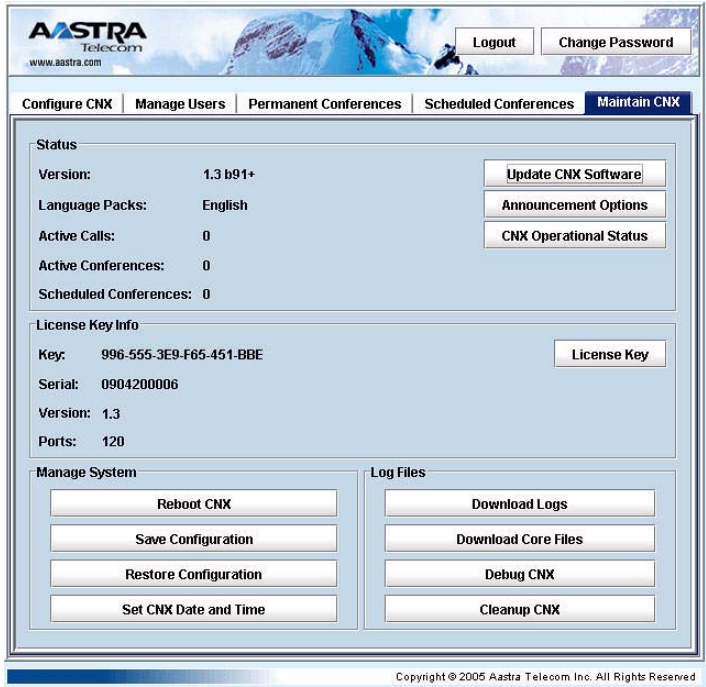
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**Notes:**

1. After capacity upgrades and major software releases on the Aastra CNX, you must enter a new license key to activate the software.
  2. The CNX performs an automatic reboot as part of the upgrade process.
-


Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	<p>Click the <b>Maintain CNX</b> tab in the Aastra CNX main window. <b>Result:</b> The Maintain Aastra CNX window displays.</p> <div><div><p><b>Update CNX Software</b></p><p><b>Save Configuration</b></p><p><b>CNX Operational Status</b></p></div></div>
3	In the “ <b>Manage System</b> ” section, click  to save the current configuration on the Aastra CNX.
4	<p>In the “<b>Status</b>” section, click  and verify that there is sufficient disk space to upgrade the Aastra CNX.</p> <p><b>Note:</b> The Aastra CNX requires approximately 35 MB or more of free disk space for an upgrade. If there is insufficient disk space, click “<b>CLEANUP CNX</b>” to delete unwanted files on the CompactFlash.</p>

Step	Action
5	<p>Click  .</p> <p><b>Result:</b> The following prompt displays.</p> 
6	<p>Enter the location of the <i>cnx.dra</i> file in the text box.</p> <p>or</p> <p>Click  .</p> <p>The Select File window displays.</p>  <p>Navigate to the location of the <i>cnx.dra</i> file and click OPEN to automatically place it in the text box of the Browse window.</p> 

Step	Action
7	<p>Click  .</p> <p><b>Result:</b> The <i>cnx.dra</i> file proceeds to download to your Aastra CNX onboard flash and the CNX CompactFlash card).</p> <p>When the upgrade is complete, the Aastra CNX reboots, the unit is upgraded, and is ready for use.</p> <p>When the upgrade is complete, the following message displays:</p> <p>"Upgrade of the Aastra CNX is complete".</p>
8	<p>Close and then open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.</p>
9	<p>Click on the <b>Maintain CNX</b> tab.</p> <p><b>Result:</b> The Maintain Aastra CNX window displays.</p>  <p>Copyright © 2005 Aastra Telecom Inc. All Rights Reserved</p>

**Update CNX software**

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Step	Action
10	<p>Click  and verify the following:</p> <ul style="list-style-type: none"> <li>• There is sufficient disk space for the operation of the Aastra CNX.  <b>Note:</b> The Aastra CNX requires approximately 35 MB or more of free disk space to operate properly.</li> <li>• There are no PRI alarms.</li> <li>• The Aastra CNX is accepting the following types of calls: <ul style="list-style-type: none"> <li>— PRI calls (including alarms on active PRI lines)</li> <li>— SIP calls</li> <li>— H.323 calls</li> </ul> </li> </ul>
11	<p>Click the <b>Permanent Conferences</b> or <b>Scheduled Conferences</b> tab to perform the following:</p> <ul style="list-style-type: none"> <li>• Verify that previous permanent and scheduled conferences are still present after the upgrade.</li> <li>• Schedule new conferences with <b>AND</b> without a moderator to verify: <ul style="list-style-type: none"> <li>- that conferences can be created successfully.</li> <li>- that moderators and users can join the conferences.</li> </ul> </li> </ul>
12	<p>After port upgrades and major software releases, enter a new license key using the procedure in the <i>Aastra CNX Conference Network Switch System Administrator Guide</i>, Chapter 5, the section, "Entering/Editing License Key."</p>



**Note:** If any of the steps in the previous Update Procedure results in an error, contact your reseller for help first. Alternatively, you can contact Aastra Telecom Technical Support.

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# Announcement options

## Description

The **Announcement Options** tool in the **Maintain CNX** window allows you to load or remove language packs and customized conference greetings to/from the Aastra CNX.

Language pack files are identified as “<language>.tar.gz”. Customized greeting files are identified as “<filename>.pcm”. Using the **Announcement Options** button, you can remove these files from your Aastra CNX, or you can load new files to the Aastra CNX from your PC.

This section describes the following announcement options:

- Loading/Removing language packs
- Loading/Removing customized greetings

## Loading/removing language packs

You can load or remove language packs to/from the Aastra CNX to provide various language options to users as required. A language pack includes announcements and GUI prompts in a specific language. The Aastra CNX has the following language packs available:

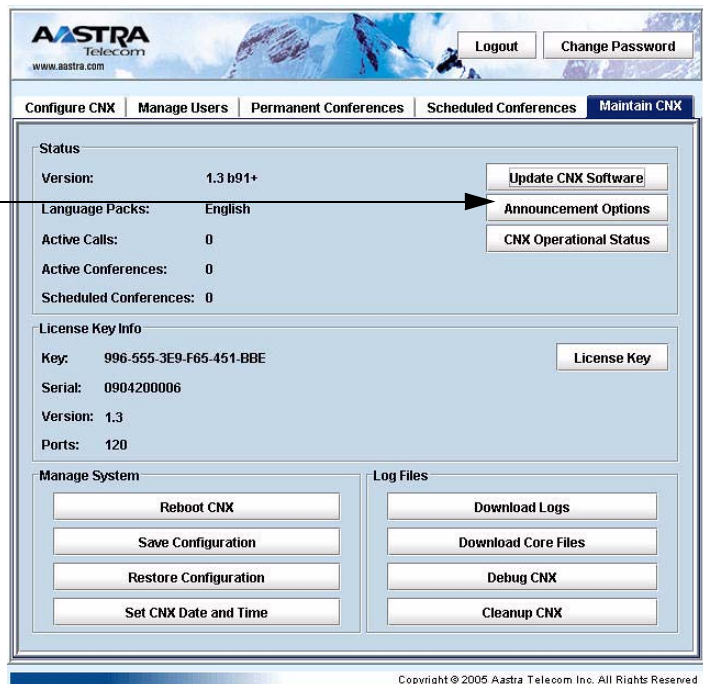
- English (default language)
- British-English (available for announcements only)
- French-Canadian
- Spanish



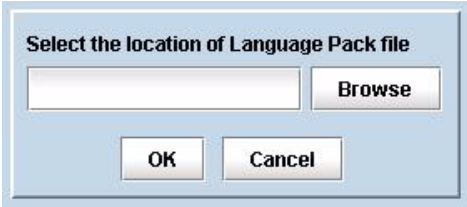
## Procedure for loading language packs

Use the following procedure to load language packs to the Aastra CNX.


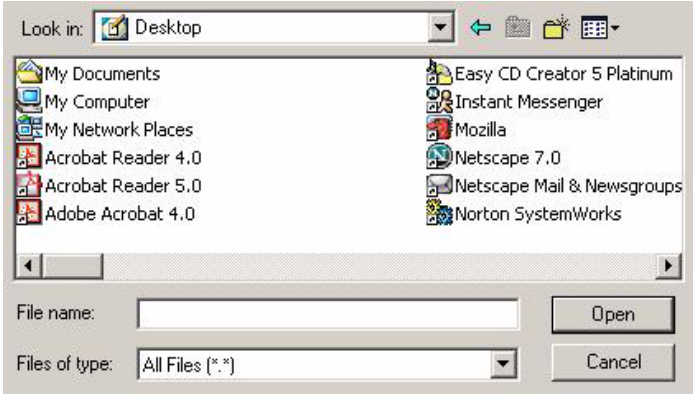


Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	Click the <b>Maintain CNX</b> tab in the Aastra CNX main window. <b>Result:</b> The Maintain Aastra CNX window displays.

**Announcement  
Options**



Step	Action
3	<div>Click </div> <div><b>Result:</b> The following window displays.</div> <div></div>
4	<div>Select the <b>“Load Language Pack”</b> option and click OK.</div> <div><b>Result:</b> The following prompt displays.</div> <div></div>

## Announcement options




Step	Action
5	<p>Enter the location of the <i>&lt;language&gt;.tar.gz</i> file in the text box.</p> <p>or</p> <p>Click  .</p> <p>The Select File window displays.</p>  <p>Navigate to the location of the <i>&lt;language&gt;.tar.gz</i> file and click OPEN to automatically place it in the text box of the Browse window.</p> 
6	<p>Click  .</p> <p><b>Result:</b> The <i>&lt;language&gt;.tar.gz</i> file proceeds to download to your Aastra CNX CompactFlash card.</p> <p>When the download is complete, close the A reboot is also required prior to loading another language pack.</p>
7	<p>When the download is complete, the Aastra CNX GUI session closes.</p> <p>Log back into the Aastra CNX GUI and verify that the language pack has been applied by selecting the language pack from <i>Configure CNX/CNX Configuration/Global/Primary Lanaguge</i>.</p>


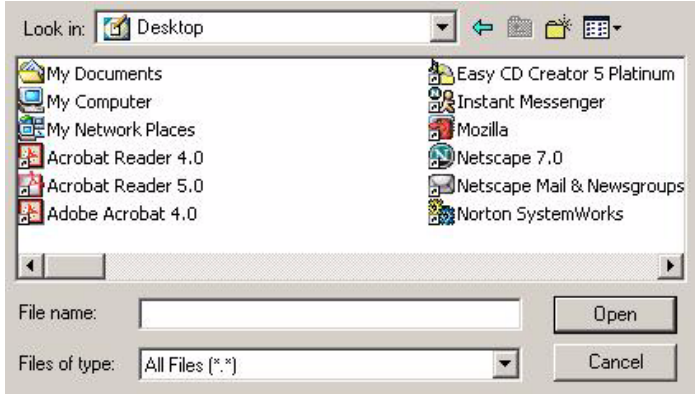


Procedure for removing language packs

Use the following procedure to remove language packs from the Aastra CNX.

Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	Click the <b>Maintain CNX</b> tab in the Aastra CNX main window. <b>Result:</b> The Maintain Aastra CNX window displays. <div><div>Announcement Options</div><div></div></div>

**Announcement options**

Step	Action
3	<p>Click .</p> <p><b>Result:</b> The following window displays.</p>  <p>The dialog box titled "Announcement Options" contains the text "Please select an option" and four radio button options: "Load Language Pack", "Remove Language Pack", "Load Customized Greeting", and "Remove Customized Greeting". At the bottom are "OK" and "Cancel" buttons.</p>
4	<p>Select the <b>"Remove Language Pack"</b> option and click OK.</p> <p><b>Result:</b> The following prompt displays.</p>  <p>The dialog box titled "Select the location of Language Pack file" contains a text input field, a "Browse" button, and "OK" and "Cancel" buttons at the bottom.</p>

Step	Action
5	<p>Enter the location of the <i>&lt;language&gt;.tar.gz</i> file in the text box.</p> <p>or</p> <p>Click  .</p> <p>The Select File window displays.</p>  <p>Navigate to the location of the <i>&lt;language&gt;.tar.gz</i> file and click OPEN to automatically place it in the text box of the Browse window.</p> 
6	<p>Click  .</p> <p><b>Result:</b> The <i>&lt;language&gt;.tar.gz</i> file proceeds to delete from your Aastra CNX CompactFlash card.</p> <p>When removal is complete, you need to reboot the Aastra CNX for the change to take affect.</p> <p><b>Note:</b> You can remove other language packs if required before rebooting the Aastra CNX.</p>
7	<p>When the removal is complete, the Aastra CNX GUI session closes.</p> <p>Log back into the Aastra CNX GUI and verify that the language pack has been removed by checking the configuration at <i>Configure CNX/CNX Configuration/Global/Primary Lanaguge</i>.</p>

## Loading/removing customized greetings

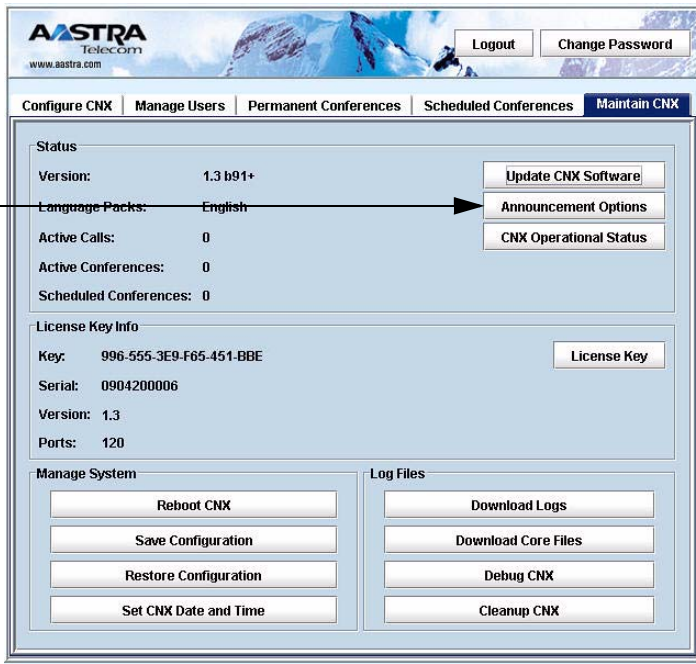
You can load or remove customized greeting files to/from the Aastra CNX to provide customized telephony access when joining conferences.






**Notes:** Create a customized greeting using an applicable recording application. Save the recording to a file on the PC.


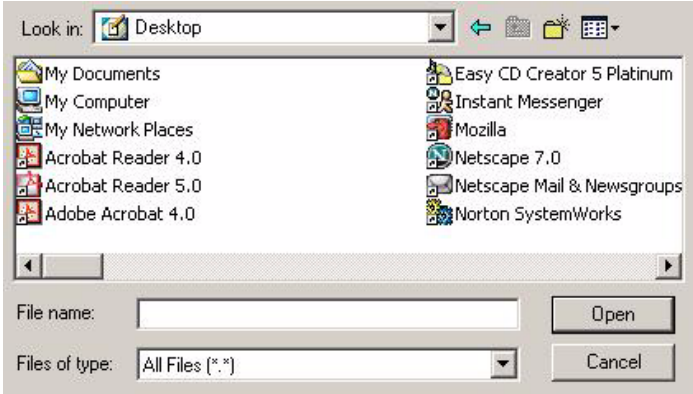
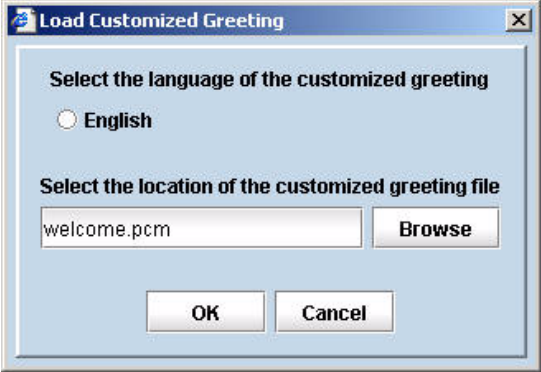

### Procedure for loading customized greetings

Use the following procedure to load a customized greeting to the Aastra CNX.

Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	<p>Click the <b>Maintain CNX</b> tab in the Aastra CNX main window. <b>Result:</b> The Maintain Aastra CNX window displays.</p> <div><p><b>Announcement Options</b></p></div>

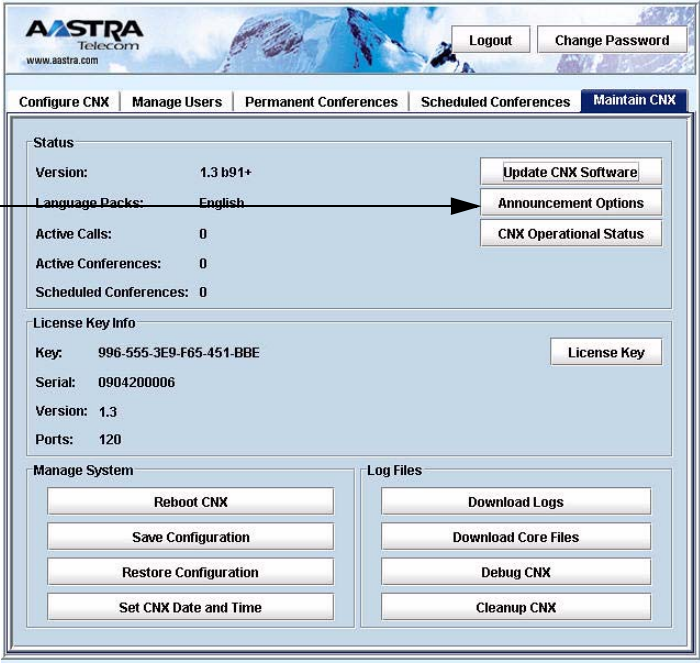
Step	Action
3	<p>Click  .</p> <p><b>Result:</b> The following window displays.</p> 
4	<p>Select the <b>“Load Customized Greeting”</b> option and click OK.</p> <p><b>Result:</b> The following window displays.</p> 
5	Select the language of the customized greeting you want to load.

## Announcement options

Step	Action
6	<p>Enter the location of the <i>&lt;filename&gt;.pcm</i> file in the text box.</p> <p>or</p> <p>Click  .</p> <p>The Select File window displays.</p>  <p>Navigate to the location of the <i>&lt;filename&gt;.pcm</i> file and click OPEN to automatically place it in the text box of the Browse window.</p> 
7	<p>Click  .</p> <p><b>Result:</b> The <i>&lt;filename&gt;.pcm</i> file proceeds to download to your Aastra CNX CompactFlash card.</p> <p>When the download is complete, the Aastra CNX GUI session closes.</p>


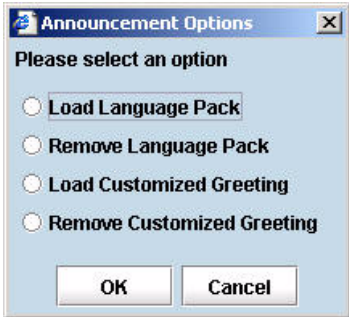

Procedure for removing customized greetings



Use the following procedure to remove a customized greeting from the Aastra CNX..

Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	Click the <b>Maintain CNX</b> tab in the Aastra CNX main window. <b>Result:</b> The Maintain Aastra CNX window displays. <div><div>Announcement Options</div><div></div></div>

**Announcement options**

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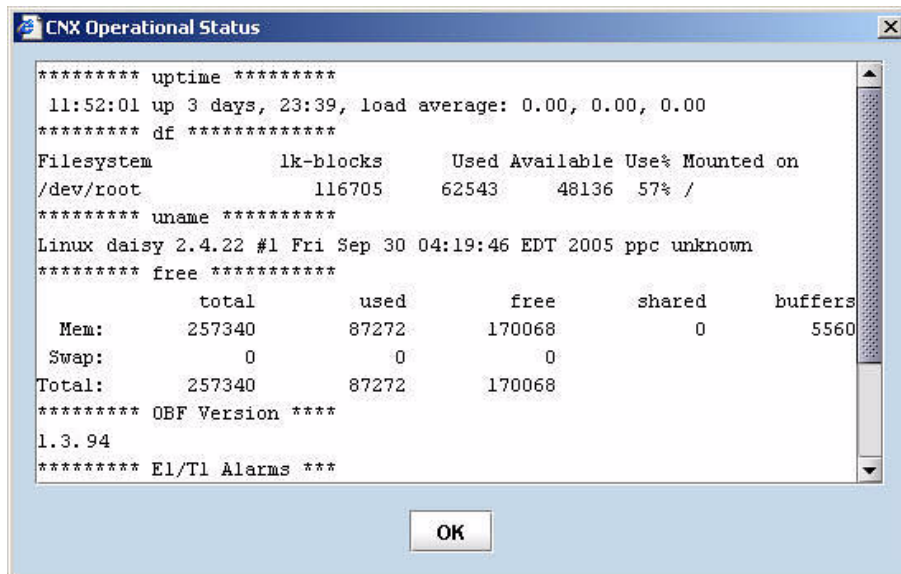
Step	Action
3	<p>Click  .</p> <p><b>Result:</b> The following window displays.</p>  <p>The dialog box titled "Announcement Options" contains the text "Please select an option" and four radio button options: "Load Language Pack", "Remove Language Pack", "Load Customized Greeting", and "Remove Customized Greeting". At the bottom are "OK" and "Cancel" buttons.</p>
4	<p>Select the <b>"Remove Customized Greeting"</b> option and click OK.</p> <p><b>Result:</b> The following window displays.</p>  <p>The dialog box titled "Remove Customized Greeting" contains the text "Select the language of the customized greeting" and a single radio button option: "English". At the bottom are "OK" and "Cancel" buttons.</p>

Step	Action
5	<p>Select the language of the customized greeting you want to remove and click  .</p> <p><b>Result:</b> The following prompt displays:</p>  <p>The dialog box titled "Remove Customized Greeting" contains a yellow warning icon and the text "Are you sure you want to remove the customized English Greeting?". At the bottom are "Yes" and "No" buttons.</p>
6	<p>Click <b>YES</b> to remove the customized greeting.</p> <p><b>Result:</b> The <i>&lt;filename&gt;.pcm</i> file proceeds to delete from your Aastra CNX CompactFlash card.</p> <p>When the download is complete, the Aastra CNX GUI session closes.</p>

# Operational status

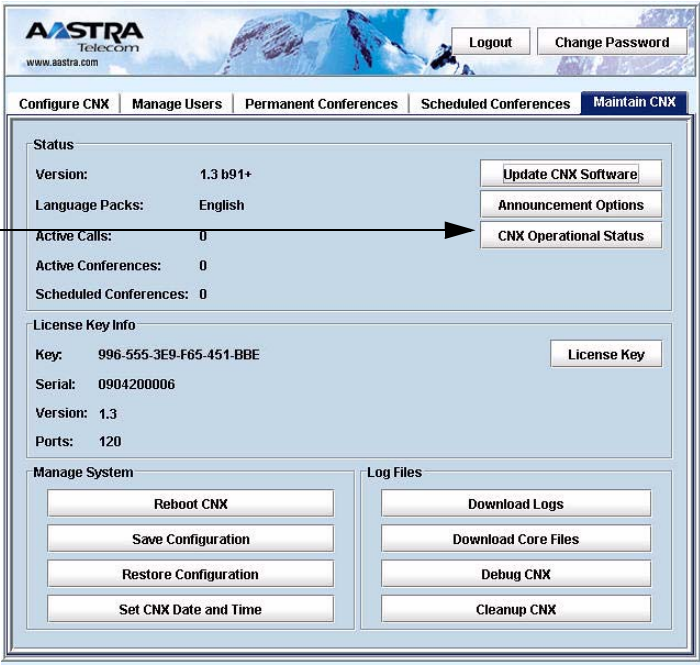
## Description

The **Operational Status** tool in the **Maintain CNX** window allows you to display operational information about the Aastra CNX, such as, the length of time the Aastra CNX has been up and running. This information can be useful when memory and on-board flash (OBF) version needs to be verified, and when T1/E1 alarms occur on the Aastra CNX.


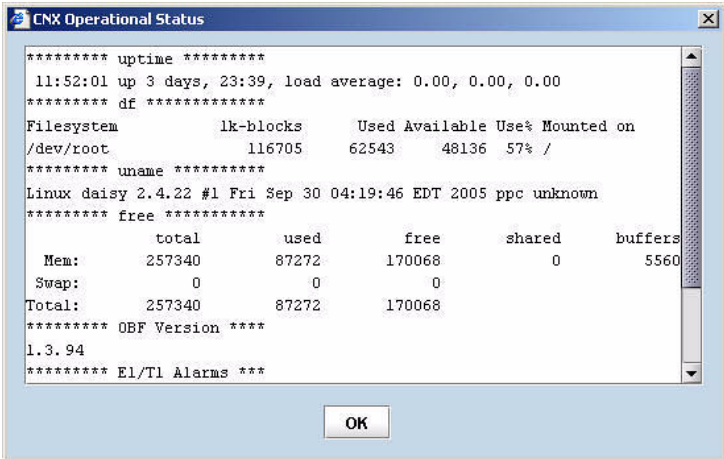



Displaying operational status

Use the following procedure to display the current operational status of the Aastra CNX.

Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	Click the <b>Maintain CNX</b> tab in the Aastra CNX main window. <b>Result:</b> The Maintain Aastra CNX window displays. <div><div>CNX Operational Status</div><div></div></div>

## Operational status

Step	Action
3	<p>Click  .</p> <p><b>Result:</b> The CNX Operational Status window displays.</p> 
4	<p>Click  to close the CNX Operational Status window.</p>

# Entering/editing License Key

## Description

The Aastra CNX has a license key assigned that specifically identifies the unit. When a you perform an update or upgrade to the Aastra CNX, the upgrade script requires that you input this license key for validation purposes.

The **Maintain CNX** tab displays the following license key information about the Aastra CNX:

- License key number
- Serial number
- License key version
- Total ports

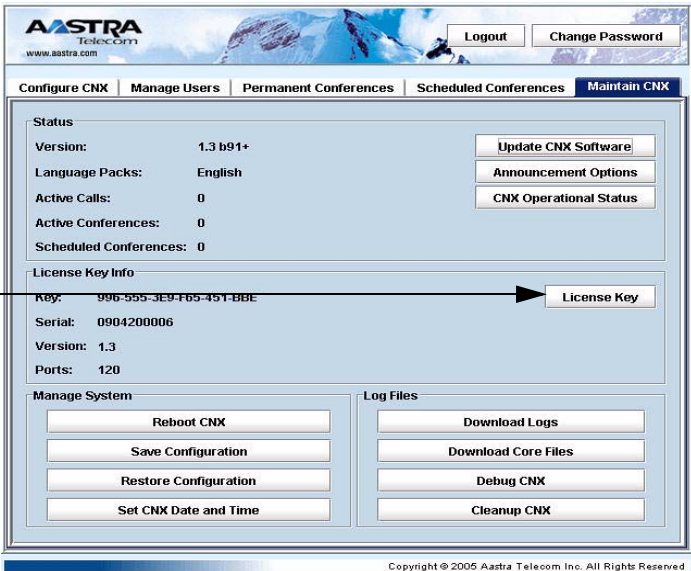
The **Maintain CNX** tab also provides a **License Key** tool for editing the license key when required.





You must enter a new license key for:

- Port upgrades (upgrading 30-port unit to 60-port unit or a 120-port unit)
- Major software releases (You must enter a license key to activate the software after the update is complete.)

## Procedure

Use the following procedure to edit license key information on the Aastra CNX.

Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	<p>Click the <b>Maintain CNX</b> tab in the Aastra CNX main window.</p> <p><b>Result:</b> The Maintain Aastra CNX window displays.</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>License Key</b> →</p> </div>  </div>

Step	Action
3	<p>Click  .</p> <p><b>Result:</b> The License Key window displays.</p> <div data-bbox="545 343 993 527"><p>Please enter a new license key.</p><p><input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/></p><p> </p></div> <p><b>Note:</b> For port upgrades and major software releases, you must enter a new license key to activate the Aastra CNX software.</p>
4	<p>Enter the new license key you received with the port upgrade or major software release and click  .</p> <p><b>Result:</b> The Aastra CNX software activates and is ready for use.</p>

# Rebooting the Aastra CNX

## Description


This section describes how you can reboot the Aastra CNX unit for maintenance purposes if required.



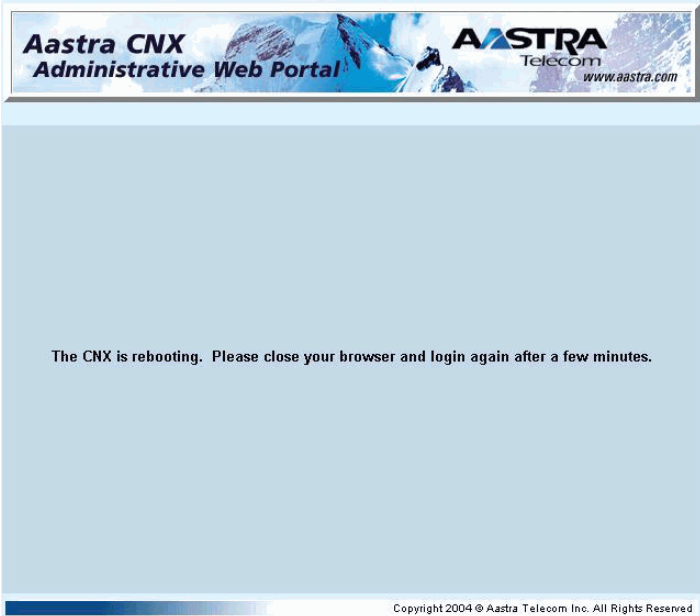


**Caution:** Rebooting the Aastra CNX causes interruption in the service that the unit is providing. Aastra Telecom recommends that you only reboot the Aastra CNX when required.

## Procedure

Use the following procedure to reboot your Aastra CNX unit.

Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	<p>Click the <b>Maintain CNX</b> tab in the Aastra CNX main window. <b>Result:</b> The Maintain Aastra CNX window displays.</p>  <p>Reboot CNX</p>

Step	Action
3	<p>Click  .</p> <p><b>Result:</b> The following prompt displays.</p>  <p>The dialog box titled "Confirm Reboot" contains a warning icon and the following text:  <b>WARNING:</b> You are about to reboot the CNX.          Number of currently active callers: 0          Number of currently active conferences: 0          Number of currently scheduled conferences: 0          Do you wish to continue?          Yes No</p>
4	<p>Click <b>YES</b> to reboot the Aastra CNX.</p> <p><b>OR</b></p> <p>Click <b>NO</b> to cancel the reboot operation.</p>  <p>The screenshot shows the Aastra CNX Administrative Web Portal. The header includes the Aastra Telecom logo and the website URL www.aastra.com. The main content area displays the message: "The CNX is rebooting. Please close your browser and login again after a few minutes." The footer contains the copyright notice: "Copyright 2004 © Aastra Telecom Inc. All Rights Reserved".</p>
5	<p>Close your browser and wait a few minutes before restarting your browser to access the Aastra CNX GUI.</p>

# Saving/Restoring Configuration

## Description

The Aastra CNX GUI provides both a **Save Configuration** and **Restore Configuration** tool. These tools save and/or restore:

- Software configuration
- User information
- Permanent and scheduled conferences

When using the Save Configuration tool, the Aastra CNX creates a compressed file that contains all of the Aastra CNX configuration, user, and conference information, and stores that file to the directory path you specify. You can use the Restore Configuration tool to unpack this compressed file back to your Aastra CNX when required.



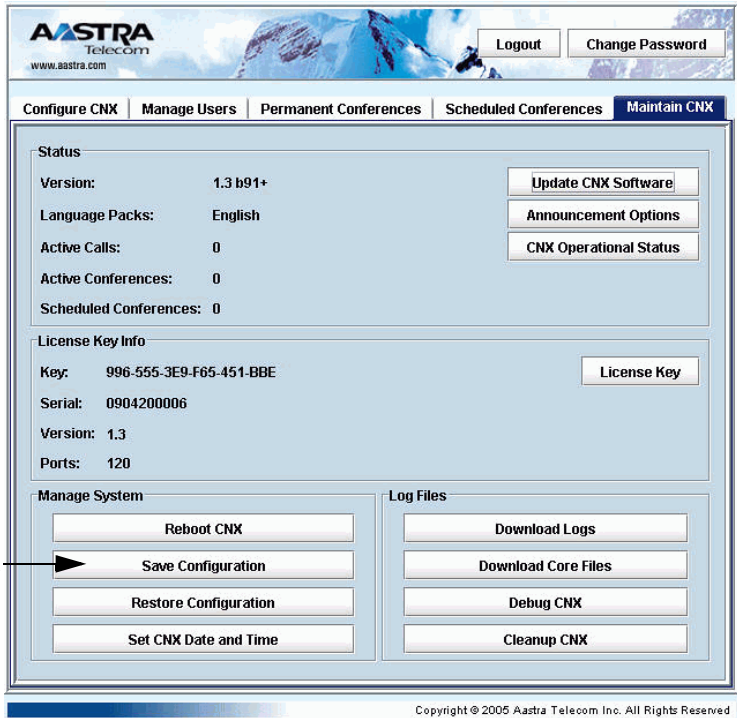
**Warning:** Restoring a previous Aastra CNX configuration file overwrites your current configuration, user, and conference information.


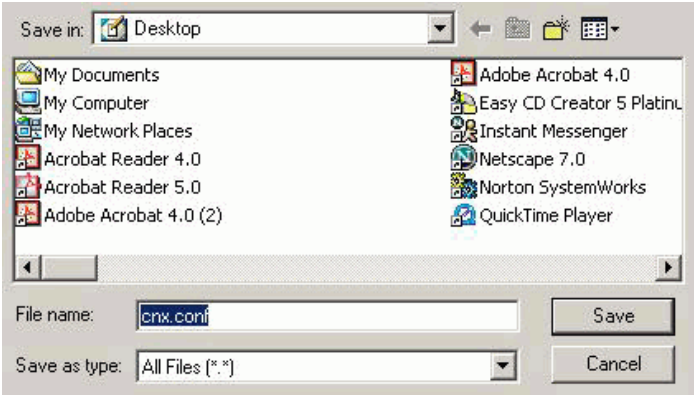
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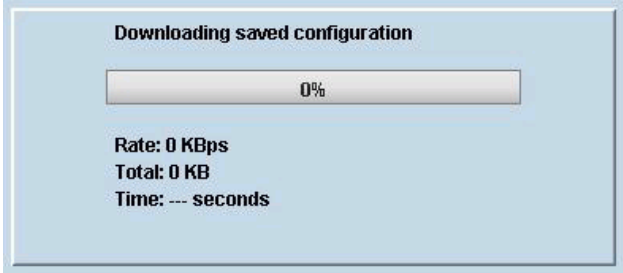


## Procedure

### Saving a configuration

Use the following procedure to save the Aastra CNX configuration, user, and conference information to a compressed file.

Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	<p>Click the <b>Maintain CNX</b> tab in the Aastra CNX main window.</p> <p><b>Result:</b> The Maintain Aastra CNX window displays</p>  <p>The screenshot shows the 'Maintain CNX' web interface. At the top, there's a header with the Aastra Telecom logo and navigation tabs: 'Configure CNX', 'Manage Users', 'Permanent Conferences', 'Scheduled Conferences', and 'Maintain CNX'. The 'Maintain CNX' tab is selected. The main content area is divided into several sections: 'Status' (showing Version: 1.3 b91+, Language Packs: English, Active Calls: 0, Active Conferences: 0, Scheduled Conferences: 0), 'License Key Info' (showing Key: 996-555-3E9-F65-451-BBE, Serial: 0904200006, Version: 1.3, Ports: 120), and 'Manage System' (containing buttons for Reboot CNX, Save Configuration, Restore Configuration, and Set CNX Date and Time). A 'Log Files' section contains buttons for Download Logs, Download Core Files, Debug CNX, and Cleanup CNX. An arrow labeled 'Save Configuration' points to the 'Save Configuration' button in the 'Manage System' section.</p>

Step	Action
3	<p>Click .</p> <p><b>Result:</b> The Save CNX Configuration window displays.</p>  <p><b>Note:</b> The default file name is <i>cnx.conf</i>. You can rename this file if required.</p>


Step	Action
4	<p>Navigate to the location on your local PC where you want to save the CNX configuration and click <b>SAVE</b>.</p> <p><b>Result:</b> The following information window displays.</p> <div data-bbox="464 387 1082 661"></div> <p>When the download is complete, the following prompt displays.</p> <div data-bbox="502 756 1042 953"></div>
5	<p>Click  .</p>


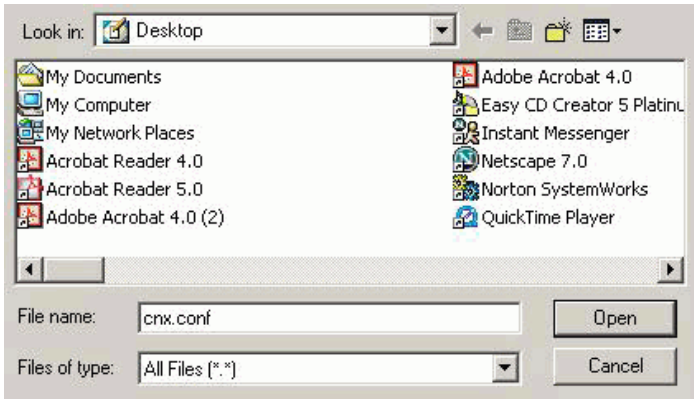
## Restoring a configuration

Use the following procedure to restore the Aastra CNX configuration, user, and conference information.



**Warning:** Restoring a previous Aastra CNX configuration file will overwrite your current configuration, user, and conference information.

Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	<p>Click the <b>Maintain CNX</b> tab in the Aastra CNX main window.</p> <p><b>Result:</b> The Maintain Aastra CNX window displays.</p>  <p>Restore Configuration</p>

Step	Action
3	<p>Click  .</p> <p><b>Result:</b> The Restore CNX Configuration Data window displays.</p> 

Step	Action
4	<p>Navigate to the location on your local PC where a previous version of the Aastra CNX configuration file is stored and click <b>OPEN</b>.</p> <p><b>Result:</b> The following information window displays.</p> <div data-bbox="454 381 1096 666" data-label="Image"> <p>The screenshot shows a light blue dialog box titled "Uploading saved configuration". Inside, there is a horizontal progress bar that is empty and labeled "0%". Below the progress bar, the following text is displayed: "Rate: 0 Kbps", "Total: 0 KB", and "Time: --- seconds".</p> </div> <p>When the download is complete, the following prompt displays.</p> <div data-bbox="472 743 1072 1078" data-label="Image"> <p>The screenshot shows a standard Windows-style dialog box titled "Confirm Reboot". It features a question mark icon on the left. The main text reads: "Please reboot for settings to take effect". Below this is a "WARNING:" section with the following statistics: "You are about to reboot the CNX.", "Number of currently active callers: 0", "Number of currently active conferences: 0", and "Number of currently scheduled conferences: 0". The dialog concludes with the question "Do you wish to continue?" and two buttons labeled "Yes" and "No".</p> </div>
5	<p>Click <b>YES</b> to reboot your Aastra CNX and restore the configuration;</p> <p><b>OR</b></p> <p>Click <b>NO</b> to cancel the restore operation.</p>

## Setting date and time

## Description

During initial configuration of the Aastra CNX (see [Chapter 3, “Configuring the Aastra CNX”](#)) the date and time is set in the setup script. Using the **Set CNX Date and Time** tool, this date and time configuration displays as the default in the Aastra CNX GUI. You can change the date and time as required by clicking the **Set CNX Date and Time** button.


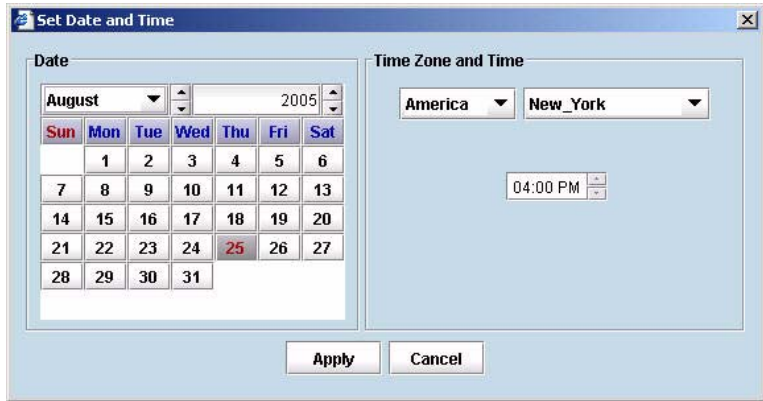


## Procedure


## Setting the date and time

Use the following procedure to set the date and time on the Aastra CNX.

Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	Click the <b>Maintain CNX</b> tab in the Aastra CNX main window.  <b>Result:</b> The Maintain Aastra CNX window displays

## Setting date and time

Step	Action
3	<p>Click .</p> <p><b>Result:</b> The following window displays.</p> 
4	Set the date by selecting the appropriate month, day, and year from the lists in this window.
5	Set the time by selecting the appropriate timezone and clock time from the lists in this window.
6	<p>Click .</p> <p><b>Result:</b> The following is an example of the prompt that displays:</p> 

Step	Action
7	<p>Click <b>OK</b> to accept the date and time changes.</p> <p><b>Result:</b> The following message displays:</p> <div data-bbox="494 383 1055 595">A Windows-style dialog box with a blue title bar that says "Success" and a close button (X) in the top right corner. On the left side of the dialog is a circular icon containing a lowercase "i". To the right of the icon, the text "The new date and time is now set on CNX." is displayed. At the bottom center of the dialog is a button labeled "OK".</div>
8	<p>Click <b>OK</b> to return to the <b>Maintain CNX</b> window.</p>

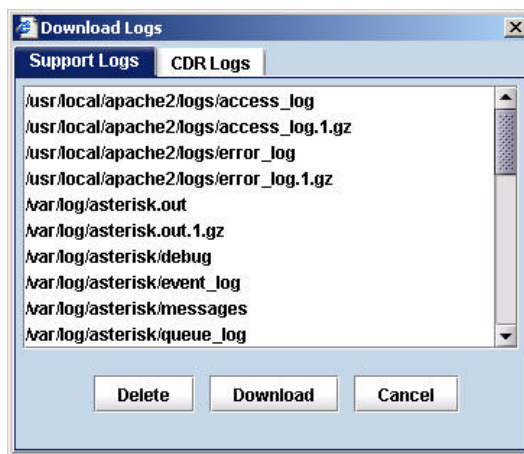
# Downloading logs

## Description

This section describes the call detail record (CDR) logs generated by the Aastra CNX. It also provides a procedure for downloading CDR logs to your local PC.



**Note:** The **Download Logs** window displays a “**Support Logs**” tab and a “**CDR Logs**” tab. The **Support Logs** maintenance is for Technical Support use *only*. Therefore, this section of the guide describes CDR logs, and provides a procedure for maintaining CDR logs *only*.



## What are CDR logs?

Call detail record (CDR) logs are files that the Aastra CNX automatically generates during call activity (ISDN, H.323, and SIP), and during conference activity of an active 24 hour period and when the Aastra CNX starts up.

The Aastra CNX maintains an open record until the call or conference activity is over. When the call or conference activity has ended, the Aastra CNX appends a footer to the bottom of the file, closes the file, and opens a new file.

You can use CDR log files for billing purposes and for debugging and troubleshooting the Aastra CNX as required.

There are two types of CDR logs:

- Call and conference activity CDR logs (**cdrlog**)
- Conference scheduling CDR logs (**confcdrlog**)

The CDR file names are in the following formats:

- *cdrlog.<year>-<month>-<day>.<hour>.<minute>.<second>.csv*
- *confcdrlog.<year>-<month>-<day>.<hour>.<minute>.<second>.csv*

The file names indicate the specific date/time period when the Aastra CNX generates the file. The time reference reflects the local time of the Aastra CNX using the 24-hour clock. The following are examples of CDR log names.



**Note:** For a detailed description about the contents of the CDR logs, see [Appendix B, “Additional information about CDR logs.”](#)

---

### Example 1

The following example indicates an active call and conference activity, CDR log. The log was generated by the Aastra CNX on March 1, 2004 at 2:25 P.M. and 52 seconds.

```
cdrlog.2004-03-01.14.25.52.csv
```

***Example 2***

The following example indicates an active conference scheduling CDR log. The log was generated by the Aastra CNX on March 20, 2004 at 1:20 P.M. and 34 seconds.

`confcdrlog.2004-03-20.13.20.34.csv.gz`



**Note:** The “csv” appendix indicates a comma separated value file. If the CDR log file name has a “.gz” indication, the log file is considered to be a compressed file.

---

## Downloading/deleting CDR logs


You can download *cdrlog* and/or *confcdrlog* file(s) to your local PC for viewing using the **Download CDR Logs** tool on the **Maintain CNX** tab in the Aastra CNX GUI. You can also delete the log files as required.

The following procedure provides information about how to download or delete CDR logs from the Aastra CNX.


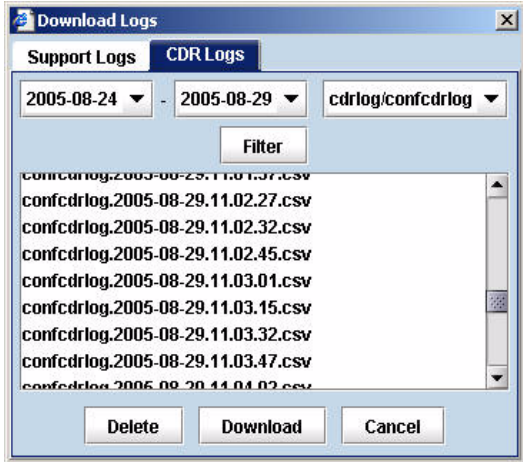


## Procedures


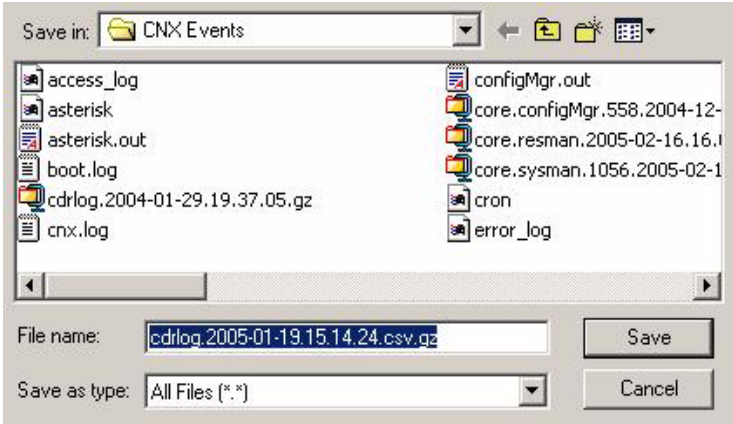

### Download CDR logs

Use the following procedure to download CDR log files to your local PC.

Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	<div>Click the <b>Maintain CNX</b> tab in the Aastra CNX main window. <b>Result:</b> The Maintain Aastra CNX window displays.</div> <div><div>Download Logs</div></div>

## Downloading logs


Step	Action
3	<p>Click .</p> <p><b>Result:</b> The Download Logs window displays.</p> 
4	Click the <b>“CDR Logs”</b> tab.
5	<p>Select the “from” and “to” dates of the log(s) you want to download.</p> 
6	<p>Select the log type you want to download and then click <b>FILTER</b>.</p>  <p><b>Note:</b> Valid log types are <b>cdrlog</b>, <b>confcdrlog</b>, or <b>cdrlog/confcdrlog</b> (both).</p>
7	<p>Select a file(s) from the log list that you want to download to your local PC.</p> <p><b>Note:</b> To select multiple files, hold down the <b>Ctrl</b> key and then click on all the files you want to download.</p>


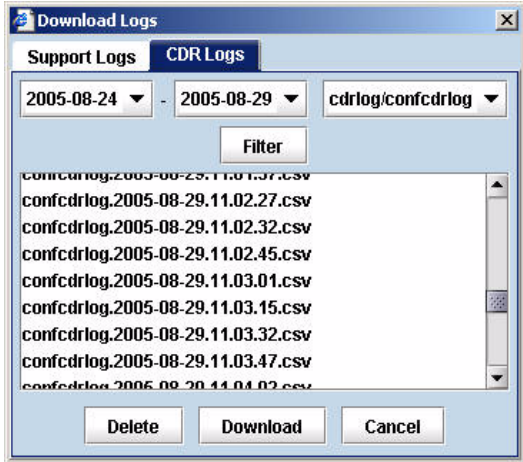


Step	Action
8	<p>Click .</p> <p><b>Result:</b> The Save As window displays.</p> 
9	<p>Navigate to the location on your local PC where you want to save the CDR log file(s) and click <b>SAVE</b>.</p> <p><b>Result:</b> The CDR log file(s) save to your local PC in the specified location. When the download is complete, the following message displays:</p> 

## Downloading logs

### Delete CDR logs



Use the following procedure to delete a CDR log file(s) from the Aastra CNX CompactFlash card.

Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	Click the <b>Maintain CNX</b> tab in the Aastra CNX main window. <b>Result:</b> The Maintain Aastra CNX window displays.  <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"><b>Download Logs</b></div>  </div>

Step	Action
3	<p>Click .</p> <p><b>Result:</b> The Download Logs window displays.</p> 
4	Click the <b>“CDR Logs”</b> tab.
5	<p>Select the “from” and “to” dates of the log(s) you want to delete.</p> 
6	<p>Select the log type you want to delete and then click <b>FILTER</b>.</p>  <p><b>Note:</b> Valid log types are <b>cdrlog</b>, <b>confcdrlog</b>, or <b>cdrlog/confcdrlog</b> (both). Default is <b>cdrlog/confcdrlog</b> (both).</p>
7	<p>Select a file(s) from the log list that you want to delete from the Aastra CNX CompactFlash card.</p> <p><b>Notes:</b>          To select a specific file(s) to delete:          - Hold down the <b>&lt;Ctrl&gt;</b> key and then click on each file you want to delete.</p> <p>To select a range of files to delete:          - Click on the first file, hold down the <b>&lt;Shift&gt;</b> key, then click on the last file. All the files between and including the first file and the last file are selected for deletion.</p>

## Downloading logs

---

Step	Action
8	<p>Click  .</p> <p><b>Result:</b> The following is an example of the message that displays.</p>  <p><b>Note:</b> If any of the logs you are trying to delete are in use by the Aastra CNX, the following message displays: "Files are currently in use and will not be deleted".</p>
9	<p>Click <b>YES</b> to delete the selected CDR log(s).  <b>or</b>  Click <b>NO</b> to cancel the delete action.</p>



**Note:** The **Download Core Files** and **Debug CNX** buttons are not described in this guide. They are for Technical Support's troubleshooting purposes *only*.

# Cleaning up the Aastra CNX

## Description

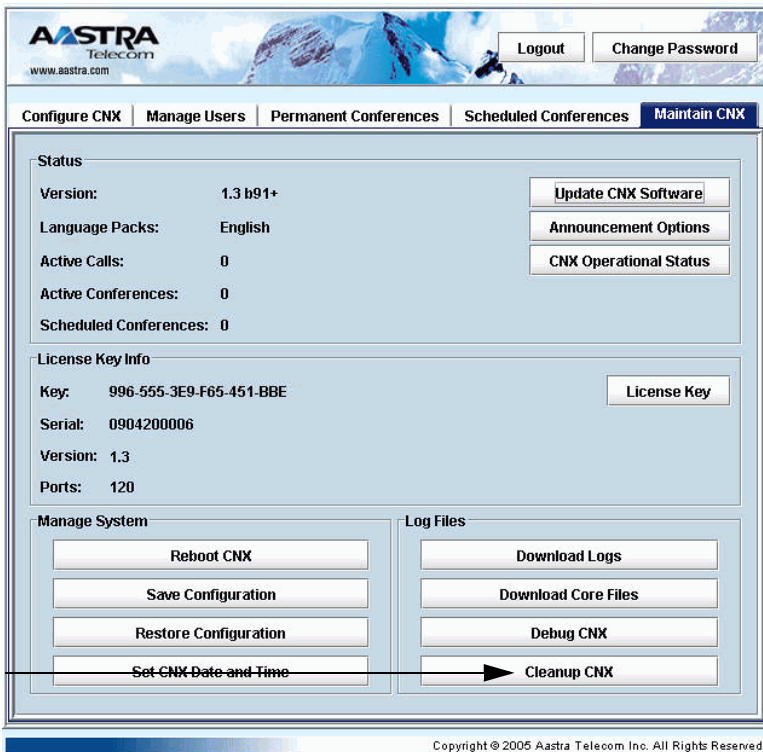
The Aastra CNX generates logs and events that are stored on the Compactflash. Significant amounts of extraneous files can fill up required space preventing any more files from being stored. A full Compactflash can also prevent you from upgrading the Aastra CNX.



You can safely delete unwanted files using the **Cleanup CNX** tool in the **Maintain CNX** window. Some of the files you can delete include:

- */tmp/\**
- */var/log/\*.gz*
- */var/log/asterisk/debug*
- */usr/local/cnx/core/\**
- */usr/local/apache2/logs/\*.gz,*
- */usr/local/cnx/cdrlogs/\*.gz*
- */var/omninames/\*.bak, /var/spool/mqueue/\**
- */var/spool/clientmqueue/\**

## Procedure

Use the following procedure to clean up the files on the Aastra CNX.

Step	Action
1	Open your Web browser and enter the URL for your Aastra CNX. Log in with a valid user ID and password.
2	<p>Click the <b>Maintain CNX</b> tab in the Aastra CNX main window.</p> <p><b>Result:</b> The Maintain Aastra CNX window displays</p>  <p><b>Cleanup CNX</b></p>

Step	Action
3	<p>Click  .</p> <p><b>Result:</b> The following window displays.</p>  <p><b>Note:</b> The files in this window are automatically selected and can be safely removed without affecting the operational integrity of the Aastra CNX. If there are no unnecessary files to delete, a message displays to indicate this.</p>
4	Click <b>YES</b> to safely remove the unwanted files from the Compactflash.
5	Click <b>OK</b> to return to the <b>Maintain CNX</b> window.



---

# Appendix A

## Conference key options

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### Participant and Moderator key options

#### Description

This section provides a quick reference list of the participant and moderator key options you can use after successfully joining a conference on the Aastra CNX.

#### Participant key options

The following table lists the participant key options.

Function	Press key
Mute/Unmute	*1
Roll Call List*	*2
Go to first page in list	1
Go to previous page in list	2
Repeat current page in list	3
Go to next page in list	4
Exit list	#
Help (repeats Roll Call options)	*

*(continued)*

Function	Press key
<b>Conference Extension Request</b> (Participant is allowed this option only in unmoderated conferences)	<b>*3</b>
Extend conference by 30-min	1
Cancel current request for 30-min extension	3
Cancel current request for 30-min extension	#
Help (repeats Conference Extension options)	*
<b>Help</b> (repeats Aastra CNX menu options)	**

\*Roll Call List holds up to 10 names on each page with each name assigned an ID number.

## Moderator key options

The following table lists the moderator key options.

Function	Press key
<b>Mute/Unmute</b>	<b>*1</b>
<b>Roll Call List*</b>	<b>*2</b>
Go to first page in list	1
Go to previous page in list	2
Repeat current page in list	3
Go to next page in list	4
Mute participant from conference	5, <ID Number>
Cancel	#
Help	*
Eject participant from conference	6, <ID Number>
Cancel	#
Help	*
Assign moderator privileges	7, <ID Number>
Cancel	#
Help	*

(continued)

Function	Press key
Exit list	#
Help (Repeats Roll Call options.)	*
<b>Conference Extension Request</b> (Participant is allowed this option only in unmoderated conferences.)	<b>*3</b>
Extend conference by 30-min	1
Cancel current request for 30-min extension	3
Cancel current request for 30-min extension	#
Help (Repeats Conference Extension options.)	*
<b>Lecture Mode</b> (Allows only moderators to speak.)	<b>*4</b>
<b>Add Port(s) Request</b>	<b>*5,&lt;Number of ports#&gt;</b>
Cancel add port(s) request	#
<b>Conference Status</b>	<b>*6</b>
<b>Lock/Unlock Conference</b>	<b>*7</b>
<b>End Conference</b>	<b>*8</b>
End the existing conference	1
Cancel request to end the conference	3 or #
Help (Repeats End Conference options.)	*
<b>Help</b> (Repeats Aastra CNX menu options.)	<b>**</b>

\*Roll Call List holds up to 10 names on each page with each name assigned an ID number.



---

# ***Appendix B***

## ***Additional information about CDR logs***

---

### **Description**

This appendix describes the call detail record (CDR) logs generated by the Aastra CNX. For a procedure on downloading CDR logs to your local PC, see [Chapter 5](#), “Maintaining the Aastra CNX.”

### **What do the CDR logs contain?**

The **cdrlog** files contain specific information about call activity and conference activity that occur on the Aastra CNX in a 24 hour period or when the Aastra CNX starts up. The **confcdrlog** file contains specific information about the conference scheduling activity that occurs when a user adds, modifies, or deletes conferences in the Aastra CNX GUI.

Every CDR log contains a Header Record. The Header Record is the first record in the CDR log file. When a CDR log is no longer active, the Aastra CNX generates a Footer Record in the log. The Footer Record is the last record in the CDR log file.

Each line in the CDR log represents a single record. A comma separates each parameter in the record. The second record in the CDR log is always the time the record was generated and the reason the record was generated. For a sample CDR log, see the following example.

### Example

The following example illustrates the contents of log file **cdrlog.2000-04-03.00.39.35.csv**. This cdrlog file has ended activity since it contains a footer.

```
954722375,HEADER,1,RESTART
954722375,SYS_RESTART
954722385,CONF_ACT,256
954726246,CONF_INACT,257,15912104
954727484,CONF_INACT,256,84
954803032,CONF_INACT,258,15913383
954806687,CONF_INACT,256,15913444
954808775,FOOTER
```

CDR logs can contain various types of records. The following table identifies the type of records that get stored in cdrlog and confcdrlog files.

Record type	Found in cdrlog files	Found in confcdrlog files	Aastra CNX generates the record in a log....
<b>HEADER</b> (Header Record)	✓	✓	for each new CDR log file.
<b>SYS_RESTART</b> (Restart Record)	✓	✓	each time a restart occurs. A completed record may contain any number of restart records.
<b>SYS_SHUTDOWN</b> (Shutdown Record)	✓	✓	each time a shutdown occurs.
<b>FOOTER</b> (Footer Record)	✓	✓	when it closes a CDR log file.

Record type	Found in cdrlog files	Found in confcdrlog files	Aastra CNX generates the record in a log....
<b>CONF_ACT</b> (Conference Active Record)	✓	-	<p>when a conference instance is scheduled. A CONF_ACT record includes:</p> <ul style="list-style-type: none"> <li>Conference ID (integer)</li> </ul> <p>For permanent conferences, this record is generated when the conference is booked, since it becomes active immediately.</p> <p>For scheduled conferences, this record is generated each time the conference is about to begin.</p>
<b>CONF_INACT</b> (Conference Inactive Record)	✓	-	<p>when a conference instance is no longer scheduled. A CONF_INACT record includes:</p> <ul style="list-style-type: none"> <li>Conference ID (integer)</li> <li>Duration of conference in minutes</li> </ul>
<b>CALL_START</b> (Call Start Record)	✓	-	<p>when a user calls into the the Aastra CNX using call types of TDM, SIP, or H.323. A CALL_START record includes:</p> <ul style="list-style-type: none"> <li>Caller ID (integer)</li> <li>Conference ID (interger)</li> <li>Call type (TDM/SIP/H323)</li> <li>Caller (SIP/H323 address of the caller or the caller's phone number)</li> </ul>

Record type	Found in cdrlog files	Found in confcdrlog files	Aastra CNX generates the record in a log....																						
<b>CALL_END</b>  (Call End Record)	✓	-	<p>when a user disconnects a call or is disconnected from the Aastra CNX using call types of TDM, SIP, or H.323. A CALL_END record includes:</p> <ul style="list-style-type: none"><li>• Caller ID (integer)</li><li>• Conference ID (interger)</li><li>• Call type (TDM/SIP/H323)</li><li>• Caller (SIP/H323 address of the caller or the caller's phone number)</li><li>• Reason (Disconnect cause)*</li><li>• Duration in minutes</li></ul> <p>*Disconnect causes could be any of the following:</p> <table><tr><th>Disconnect cause</th><th>Description</th></tr><tr><td><b>NORMAL</b></td><td>Normal call clearing (for example, a hang-up during a conference).</td></tr><tr><td><b>SHUTDOWN</b></td><td>System was shutting down.</td></tr><tr><td><b>NO_RESOURCES</b></td><td>All 30/60 ports in use.</td></tr><tr><td><b>LOGIN_FAILED</b></td><td>Incorrect pin entered. This cause may log even if a user enters the wrong pin once, and then hangs up.</td></tr><tr><td><b>NOT_STARTED</b></td><td>Attempted to log into a conference that has not yet started.</td></tr><tr><td><b>NO_PORTS</b></td><td>All the reserved ports for the conference are in use.</td></tr><tr><td><b>EJECTED</b></td><td>The moderator ejected the user off of the bridge.</td></tr><tr><td><b>CONF_OVER</b></td><td>User is ejected from the conference because the conference time was up.</td></tr><tr><td><b>INTERNAL_ERROR</b></td><td>An error condition on the CNX occurred; check the logs for error messages.</td></tr><tr><td><b>UNKNOWN</b></td><td>Unknown error</td></tr></table>	Disconnect cause	Description	<b>NORMAL</b>	Normal call clearing (for example, a hang-up during a conference).	<b>SHUTDOWN</b>	System was shutting down.	<b>NO_RESOURCES</b>	All 30/60 ports in use.	<b>LOGIN_FAILED</b>	Incorrect pin entered. This cause may log even if a user enters the wrong pin once, and then hangs up.	<b>NOT_STARTED</b>	Attempted to log into a conference that has not yet started.	<b>NO_PORTS</b>	All the reserved ports for the conference are in use.	<b>EJECTED</b>	The moderator ejected the user off of the bridge.	<b>CONF_OVER</b>	User is ejected from the conference because the conference time was up.	<b>INTERNAL_ERROR</b>	An error condition on the CNX occurred; check the logs for error messages.	<b>UNKNOWN</b>	Unknown error
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Record type	Found in cdrlog files	Found in confcdrlog files	Aastra CNX generates the record in a log....																										
<b>CONF_ADD</b>  (Conference Added Record)	-	✓	<p>when the user has added a conference to the Aastra CNX via the graphical user interface (GUI). A CONF_ADD record includes:</p> <ul style="list-style-type: none"><li>Exit status* (OK, DATA_INVALID, NOT_ENOUGH_PORTS, PORTS_IN_USE)</li><li>Conference detail See list below.**</li></ul> <p><b>Note:</b> *An exit status of OK means the conference was added successfully. All other values for exit status indicates an error occurred.</p> <table><tr><th>Conference Detail</th><th>Description</th></tr><tr><td>Name</td><td>Name of the conference</td></tr><tr><td>ID</td><td>ID of the conference</td></tr><tr><td>Type</td><td>PERM (permanent) SCHED (scheduled)</td></tr><tr><td>Moderated</td><td>MODERATED NOTMODERATED</td></tr><tr><td>PIN</td><td>PIN for non-moderators of conference</td></tr><tr><td>Moderator PIN</td><td>Moderator's PIN (only if moderator exists for conference)</td></tr><tr><td>Ports</td><td>Number of ports allocated for the conference</td></tr><tr><td>Owner</td><td>User who created the conference</td></tr><tr><td>Start date</td><td>Start date/time of conference in format YYYY-MM-DD-HH-mm</td></tr><tr><td>End date</td><td>End date/time of conference in format YYYY-MM-DD-HH-mm</td></tr><tr><td>Duration</td><td>Length of time (duration) of the conference</td></tr><tr><td>Recurrence</td><td>NO_RECURR (no recurrence) DAILY WEEKLY MONTH_DAY MONTH_DOW (month and day of week) YEAR_DAY YEAR_DOWOM (year and day of week, week of month)</td></tr></table>	Conference Detail	Description	Name	Name of the conference	ID	ID of the conference	Type	PERM (permanent) SCHED (scheduled)	Moderated	MODERATED NOTMODERATED	PIN	PIN for non-moderators of conference	Moderator PIN	Moderator's PIN (only if moderator exists for conference)	Ports	Number of ports allocated for the conference	Owner	User who created the conference	Start date	Start date/time of conference in format YYYY-MM-DD-HH-mm	End date	End date/time of conference in format YYYY-MM-DD-HH-mm	Duration	Length of time (duration) of the conference	Recurrence	NO_RECURR (no recurrence) DAILY WEEKLY MONTH_DAY MONTH_DOW (month and day of week) YEAR_DAY YEAR_DOWOM (year and day of week, week of month)
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End date	End date/time of conference in format YYYY-MM-DD-HH-mm																												
Duration	Length of time (duration) of the conference																												
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Record type	Found in cdrlog files	Found in confcdrlog files	Aastra CNX generates the record in a log....
<b>CONF_MOD</b>  (Conference Modified Record)	-	✓	<p>when the user has modified an existing conference on the Aastra CNX via the graphical user interface (GUI). A CONF_MOD record includes:</p> <ul style="list-style-type: none"><li>Exit status* (OK, DATA_INVALID, NOT_ENOUGH_PORTS, PORTS_IN_USE)</li><li>Old conference detail. See <a href="#">conference detail list on page B-5</a>.</li><li>New conference detail. See <a href="#">conference detail list on page B-5</a>.</li></ul> <p><b>Note:</b> *An exit status of OK means the conference was modified successfully. All other values for exit status indicates an error occurred.</p>
<b>CONF_DEL</b>  (Conference Deleted Record)	-	✓	<p>when the user has deleted an existing conference on the Aastra CNX via the graphical user interface (GUI). A CONF_DEL record includes:</p> <ul style="list-style-type: none"><li>Exit status* (OK, DATA_INVALID, NOT_ENOUGH_PORTS, PORTS_IN_USE)</li><li>Conference detail See <a href="#">conference detail list on page B-5</a>.</li></ul> <p><b>Note:</b> *An exit status of OK means the conference was deleted successfully. All other values for exit status indicates an error occurred.</p>

The following are examples of the cdrlog and the confcdrlog files.

### **Example 1**

The following example illustrates the contents of log file

**confcdrlog.2000-04-03.00.39.35.csv**. This log file has ended activity indicated by the FOOTER entry at the end of the file.

```
954722375,HEADER,1,RESTART
954722375,SYS_RESTART
954722385,CONF_ADD,OK,test,256,cnxadmin,PERM,NOTMODERATED,60467,2,0-0-0-0-0,0-0-0-0-0,0,NO_RECURR,
954725463,CONF_ADD,OK,HR
Meeting,257,admin,SCHED,NOTMODERATED,23048,5,2004-10-5-13-30,2004-10-5-15-30,4,NO_RECURR,
954726246,CONF_MOD,NOT_ENOUGH_PORTS,HR
Meeting,257,admin,SCHED,NOTMODERATED,23048,5,2004-10-5-13-30,2004-10-5-15-30,4,NO_RECURR,,HR
Meeting,257,admin,SCHED,NOTMODERATED,44444,5,2004-10-5-13-30,2004-10-5-15-30,4,YEAR_DOWOM,
954726375,CONF_ADD,DATA_INVALID,HR
Meeting,256,admin,SCHED,NOTMODERATED,828528456,5,2004-10-5-13-30,2004-10-27-15-30,4,DAILY,
954726496,CONF_MOD,DATA_INVALID,,262151132,,SCHED,MODERATED,262151132,873267152,0,4000-61216-3999-7132-13325,61376-3986-0-9216-17442,4128,,262151132,,SCHED,MODERATED,262151132,873267152,0,4000-61216-3999-7132-13325,61376-3986-0-9216-17442,4128,
954726706,CONF_ADD,DATA_INVALID,HR
Meeting,256,admin,SCHED,NOTMODERATED,828528456,5,2004-10-5-13-30,2004-10-5-15-30,4,NO_RECURR,
954727484,CONF_DEL,OK,test,256,cnxadmin,PERM,NOTMODERATED,60467,2,0-0-0-0-0,0-0-0-0-0,0,NO_RECURR,
954741756,CONF_ADD,DATA_INVALID,test,257,admin,SCHED,NOTMODERATED,828528456,2,2005-10-1-17-0,2014-10-1-17-30,1,DAILY,
954802093,CONF_ADD,OK,HR
Meeting,258,admin,SCHED,NOTMODERATED,828528456,5,2004-10-6-10-0,2004-10-6-12-0,4,NO_RECURR,
954803032,CONF_DEL,OK,HR
Meeting,258,admin,SCHED,NOTMODERATED,828528456,5,2004-10-6-10-0,2004-10-6-12-0,4,NO_RECURR,
954803554,CONF_ADD,OK,HR
Meeting,259,admin,SCHED,MODERATED,828528456,828528456,5,2004-10-6-10-0,2004-10-6-12-0,4,NO_RECURR,
954806027,CONF_ADD,OK,HR
Meeting,256,admin,SCHED,MODERATED,828528456,828528456,5,2004-10-6-11-0,2004-10-6-13-0,4,NO_RECURR,
954806687,CONF_DEL,OK,HR
Meeting,256,admin,SCHED,MODERATED,828528456,828528456,5,2004-10-6-11-0,2004-10-6-13-0,4,NO_RECURR,
954806740,CONF_ADD,DATA_INVALID,General
Meeting,257,admin,SCHED,MODERATED,830625608,830625608,5,2004-10-6-11-0,2004-10-6-13-0,4,NO_RECURR,
954807002,CONF_ADD,OK,General
Meeting,256,admin,SCHED,MODERATED,828528456,828528456,5,2004-10-6-11-0,2004-10-6-13-0,4,NO_RECURR,
954808775,FOOTER
```

## ***Example 2***

The following example illustrates the contents of log file **cdrlog.2004-09-03.13.16.57.csv**. This log file is still active.

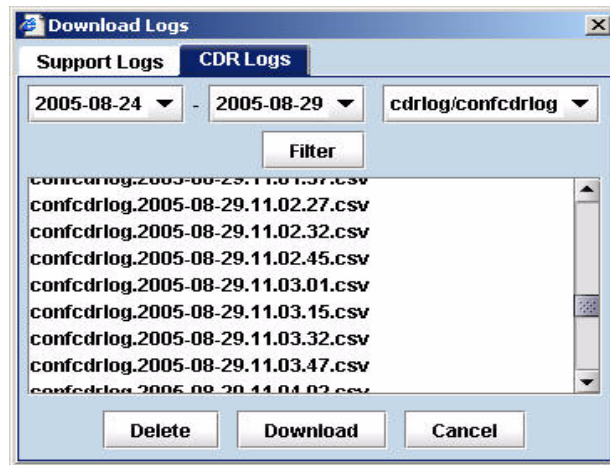
```
1094217417,HEADER,1,RESTART
1094217417,SYS_RESTART
1094217494,CONF_ACT,256
1094217508,CALL_START,1,256,SIP,SIP/10.50.20.56-1015c980
1094217593,CALL_START,2,0,SIP,SIP/10.50.10.51-10182e58
1094217593,CALL_END,2,0,SIP,SIP/10.50.10.51-10182e58,LOGIN_FAILED,0
1094217713,CALL_START,3,256,SIP,SIP/10.50.10.51-10182e58
1094217727,CALL_END,1,256,SIP,SIP/10.50.20.56-1015c980,NORMAL,3
1094217738,CONF_ACT,257
1094217829,CALL_START,4,0,SIP,SIP/10.50.10.51-10177590
1094217829,CALL_END,4,0,SIP,SIP/10.50.10.51-10177590,NORMAL,0
1094217866,CALL_START,6,257,SIP,SIP/10.50.20.56-1017d0b0
1094217986,CALL_START,5,257,SIP,SIP/10.50.10.51-10184220
1094217986,CALL_END,5,257,SIP,SIP/10.50.10.51-10184220,NORMAL,0
1094218019,CALL_START,7,0,SIP,SIP/10.50.10.51-101801c8
1094218019,CALL_END,7,0,SIP,SIP/10.50.10.51-101801c8,CONF_LOCKED,0
1094218093,CALL_START,8,0,SIP,SIP/10.50.10.51-101801c8
1094218093,CALL_END,8,0,SIP,SIP/10.50.10.51-101801c8,NORMAL,0
1094218105,CALL_START,9,257,SIP,SIP/10.50.10.51-101801c8
1094218116,CALL_END,9,257,SIP,SIP/10.50.10.51-101801c8,NORMAL,0
1094218132,CONF_INACT,257,6
```

## Where are the CDR logs stored?

When CDR logs are generated, the Aastra CNX automatically stores the logs to the CompactFlash card for easy access and download when required. You can download these logs to your local PC using the log file tools on the **Maintain CNX** tab in the Aastra CNX GUI.

You can download a single CDR or multiple CDRs from the Aastra CNX CompactFlash card to your local PC. You can also delete single or multiple CDR logs as required.

The following illustration shows an example of CDR logs stored on the Aastra CNX.



## Reference

For a procedure on downloading CDR logs and core files, see [Chapter 5, “Maintaining the Aastra CNX.”](#)



## A

- ad-hoc conference 4-8
- announcement options 5-9

## B

- baud rate 1-11

## C

- CDR logs
  - deleting 5-46
  - description 5-41
  - downloading 5-40, 5-43
- chassis description 2-4
- cleanup of CNX 5-50
  - file types 5-49
- CNX
  - benefits of 2-2
  - cleaning up 5-49
  - cnx.cfg file 3-1
  - conference participant in 2-13
  - configuring using Web UI 3-14
  - features of 2-2
  - installing 2-2
  - languages supported 2-3
  - logging in 3-10
  - overview 2-1
  - protocols supported 2-8
  - registered user for 2-12
  - regulatory and compliance information 3-x
  - reporting capabilities 2-14
  - RFCs supported 2-8
  - saving and restoring a configuration 5-30
  - setting date and time 5-37
  - software features for 2-8

- software updates and upgrades for 2-15
- system administrator privileges 2-11
- conference capabilities 2-10
- conference participant 2-13
- conferences
  - permanent 2-10, 4-8
  - port resource management of 2-11
  - scheduled 2-10
- conferences, managing 4-7
- conferences, scheduled 4-16
- configuring
  - conference general attributes 3-29
  - conference voice attributes 3-30
  - global attributes 3-17
  - initial network information 3-1
  - ISDN PRI attributes 3-22
  - network attributes 3-19
  - user authentication attributes 3-26
  - VoIP RTP attributes 3-37
  - VoIP SIP attributes 3-32
- configuring the CNX 3-14
- configuring, initial setup
  - force reboot 3-9
  - network and time 1-12
  - NTPs 3-7
  - Telnet access 3-2
- customized greetings
  - loading 5-16
  - removing 5-19

## D

- date and time, setting 5-37

---

**G**

generating reports [2-14](#)

**H**

hardware, Aastra CNX [2-4](#)  
    front panel [2-5](#)  
    rear panel [2-7](#)

**L**

language packs  
    loading [5-10](#)  
    removing [5-13](#)  
languages supported in CNX [2-3](#)  
LED descriptions [2-5](#), [2-6](#)  
license key [5-25](#)  
    procedures for editing [5-26](#)

**M**

maintaining  
    loading/removing customized greetings [5-16](#)  
    loading/removing language packs [5-9](#)  
    updating software [5-4](#)  
maintaining, overview [5-1](#)

**O**

operational status [5-22](#)  
operational status, displaying [5-23](#)

**P**

permanent conferences [4-8](#)  
    booking new [4-9](#)  
    deleting [4-15](#)  
    modifying [4-14](#)  
privileges  
    conference participant [2-13](#)  
    system administrator [2-11](#)

**R**

reboot [5-28](#)  
rebooting from GUI [5-28](#)  
rebooting in initial setup [3-9](#)  
rebooting, procedure for [5-28](#)  
reporting capabilities [2-14](#)  
requirements  
    login [3-10](#)  
    software [2-16](#)  
reservationless conference [4-8](#)  
restoring a configuration [5-30](#), [5-34](#)

**S**

saving a configuration [5-30](#), [5-31](#)  
scheduled conference  
    booking new [4-16](#)  
    deleting [4-27](#)  
    modifying [4-24](#)  
scheduled conferences [4-16](#)  
system administrator [2-11](#)

**U**

upgrading, procedure for [5-4](#)  
users  
    creating [4-2](#)  
    deleting [4-6](#)  
    modifying [4-4](#)  
users, managing [4-1](#)



# **Aastra CNX Conference Network Switch**

## **System Administrator Guide**

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